UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

RXD-G3/G4/G5/G31/G51

SERVICE MANUAL

(UD-305/315/405/505/515)

KENWOOD

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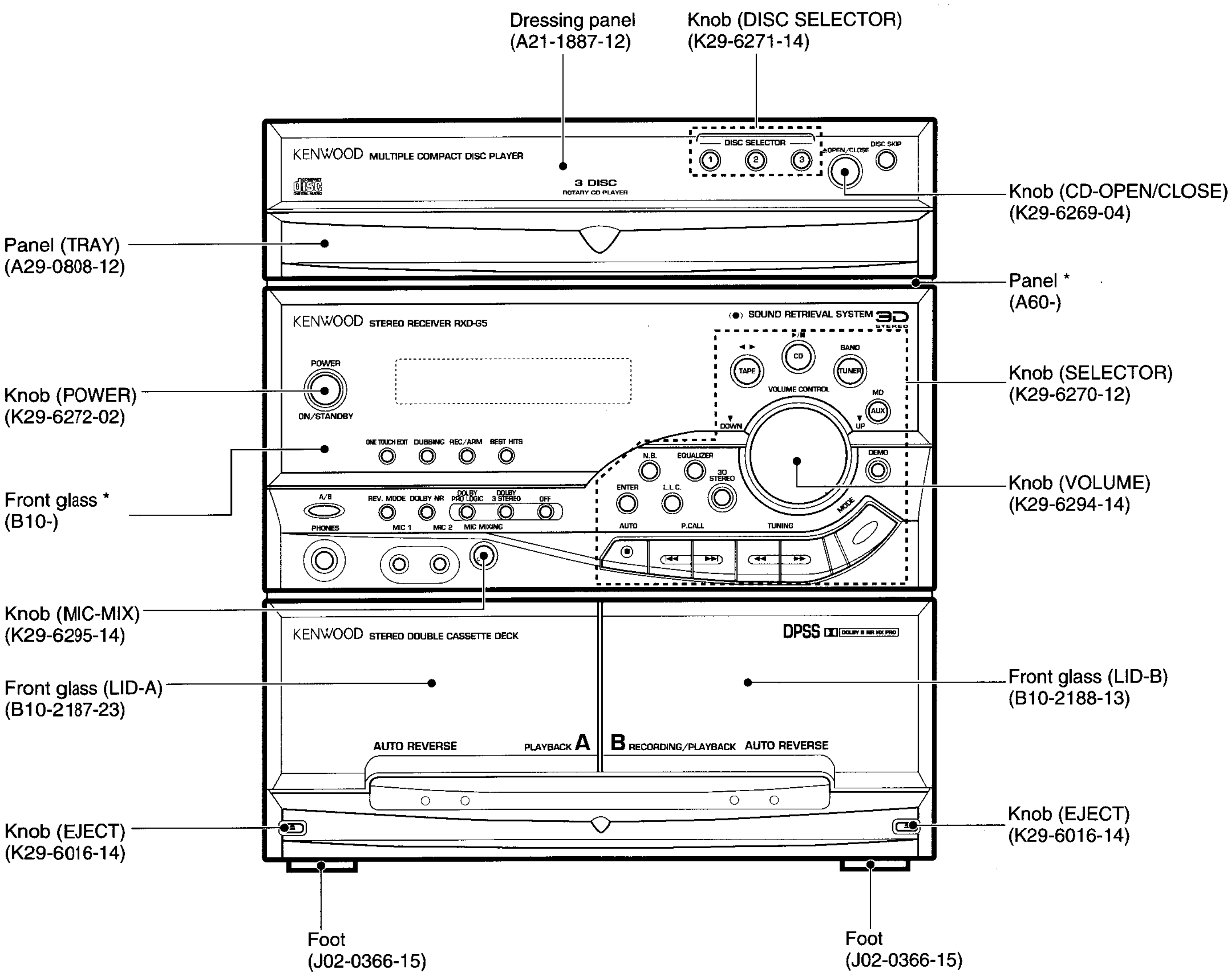
Dressing panel
(A21-1887-12)
Knob (DISC SELECTOR)
(K29-6271-14)
Knob (CD-OPEN/CLOSE)
(K29-6269-04)
Panel (TRAY)
(A29-0808-12)
Panel *
(A60-)
Knob (SELECTOR)
(K29-6270-12)
Knob (POWER)
(K29-6272-02)
Front glass *
(B10-)
Knob (VOLUME)
(K29-6294-14)
Knob (MIC-MIX)
(K29-6295-14)
Front glass (LID-A)
(B10-2187-23)
Front glass (LID-B)
(B10-2188-13)
Knob (EJECT)
(K29-6016-14)
Knob (EJECT)
(K29-6016-14)
Foot
(J02-0366-15)
Foot
(J02-0366-15)
KENWOOD MULTIPLE COMPACT DISC PLAYER
3 DISC
ROTARY CD PLAYER
DISC SELECTOR
OPEN/CLOSE
DISC SKIP
KENWOOD STEREO RECEIVER RXD-G5
SOUND RETRIEVAL SYSTEM 3D STEREO
POWER
ON/STANDBY
TAPE
CD
BAND
TUNER
VOLUME CONTROL
MD
AUX
DOWN
UP
ONE TOUCH EDIT
DUBBING
REC/ARM
BEST HITS
N.B.
EQUALIZER
3D STEREO
DEMO
ENTER
L.L.C.
A/B
REV. MODE
DOLBY NR
DOLBY PRO LOGIC
DOLBY 3 STEREO
OFF
PHONES
MIC 1
MIC 2
MIC MIXING
AUTO
P.CALL
TUNING
MODE
KENWOOD STEREO DOUBLE CASSETTE DECK
DPSS
AUTO REVERSE
PLAYBACK A
B RECORDING/PLAYBACK
AUTO REVERSE

Illustration is RXD-G5.
*** Refer to parts list on page 63.**

PRECAUTIONS FOR REPAIR

- *For the disassembly of repair, see Service Manual **(B51-5091-00)** of **RXD-F3/F4/F41/F42.***
- *For the operation of the CD and the cassette (A or B deck) mechanism, see Service Manual **(B51-4869-00)** of **RXD-C3/C3L.***

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DH
tions No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeate
AVOID DIRECT EXPOSURE TO BEAM.

RXD-G3/G4/G5/G31/G51

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EXPLODED VIEW

CD MECHANISM 58
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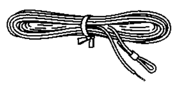
Please see to the following service manual If you need to refer to the circuit description of ICs.

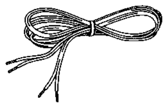
PCB No.	Ref. No.	IC Parts No.	Function	Service manual	
				Model Name	Page
X09	IC5	BU4094BCF	EXPANDER μ-COM	RXD-F3	P20,22
X28	IC6,7	BU4094BC	EXPANDER μ-COM	RXD-F3	P20,22
X32	IC6	BU4094BC	EXPANDER μ-COM	RXD-F3	P20,22
X14	IC2	NJU3718G			
X09	IC6	M65844P	EXPANDER μ-COM	RXD-F3	P21
			DIGITAL ECHO		P23
X28	IC3	HA12182F	DOLBY IC	RXD-F3	P25~27
X32	IC2	CXD2508AQ	CD DSP	RXD-F3	P28~P30

Accessories

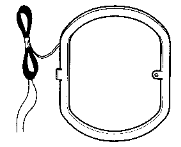
FM indoor antenna (1)
(T90-0801-05) : K,P,Y,M,I,C,X
(T90-0809-05) : T,E



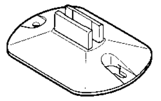
Speaker cord (2)
(E30-5255-05) : RXD-G3
(E30-5120-08) : RXD-G4
(E30-5156-08) : RXD-G5



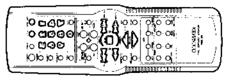
AM loop antenna (1)
(T90-0820-05)



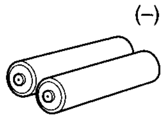
Loop antenna stand (1)
(J19-3645-05)



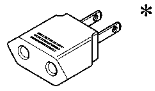
Remote control unit (1)
(A70-1053-05) : RXD-G3/G31
(A70-1054-05) : RXD-G4 : T,E
(A70-1063-05) : RXD-G4 : K,P,Y,M,C,X/G51
(A70-1055-05) : RXD-G5 : K,P,Y,M,C,X
(A70-1056-05) : RXD-G5 : T,E



Batteries (R6/AA) (2)



AC plug adaptor (1)
(E03-0115-05)



Insulators (8)
(J02-1155-04)
: RXD-G4/G5 K.P

*1 Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessary only for regions where use is necessary.)

*2 For U.S.A. and Canada only, please attach to the speaker bottom.

System configuration

SYSTEM NAME	MAIN UNIT	SPEAKERS	OVER CARTON			SPACER
UD-305	RXD-G3	LS-G3	KP H60-0424-04	MXY H60-0422-04		
UD-315	RXD-G31	LS-G3		M H60-0450-04	C H60-0451-04	
UD-405	RXD-G4	LS-G4	KP H60-0421-04	MXY H60-0418-04	C H60-0419-04	
UD-505	RXD-G5	LS-G4	KP H60-0415-04	MXY H60-0414-04	C H60-0413-04	KP H12-2294-04 H12-2295-04
UD-515	RXD-G51	LS-G5		M H60-0448-04	C H60-0449-04	

EXTERNAL VIEW / CAUTIONS

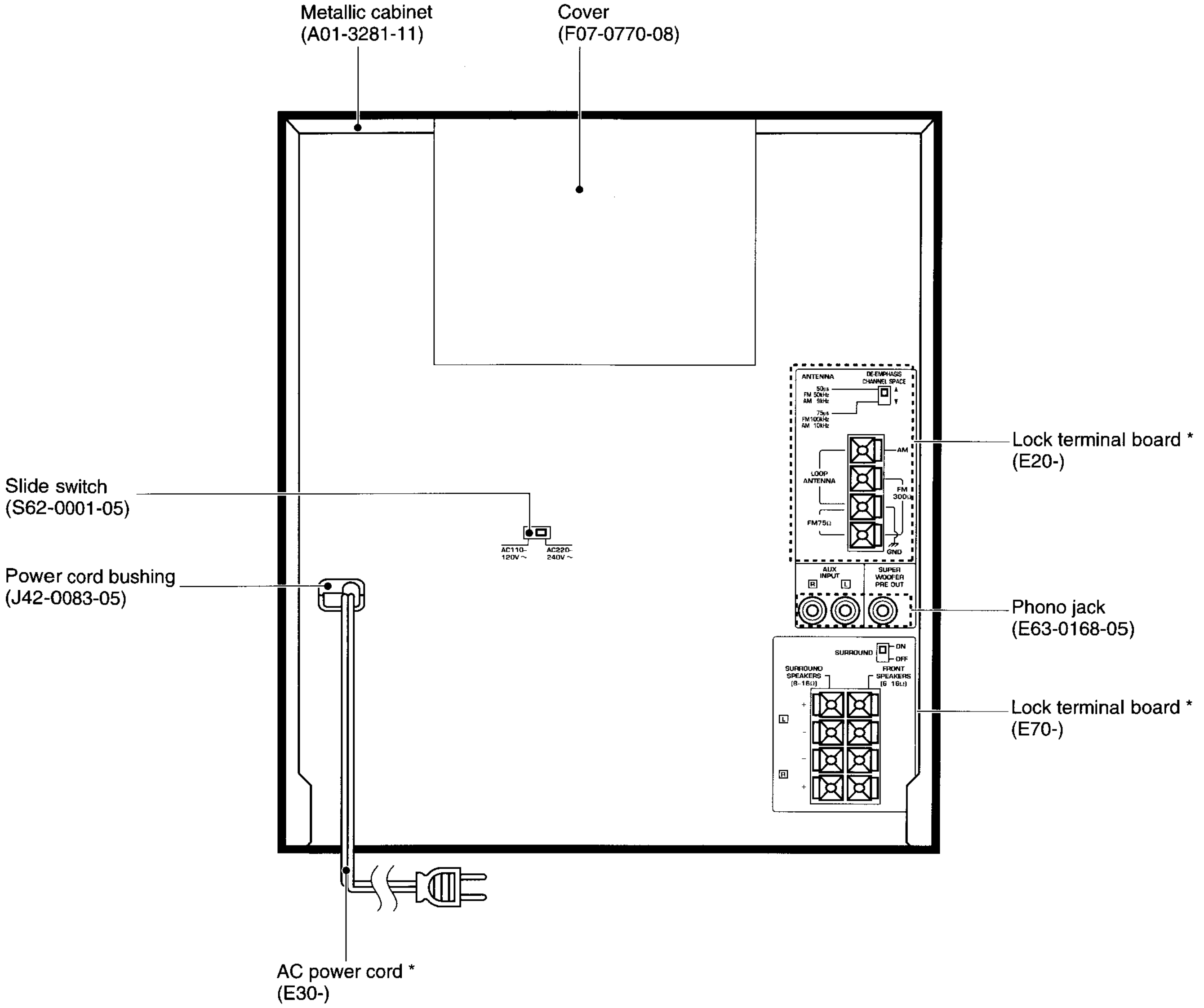

Metallic cabinet
(A01-3281-11)
Cover
(F07-0770-08)
Lock terminal board *
(E20-)
Slide switch
(S62-0001-05)
Power cord bushing
(J42-0083-05)
Phono jack
(E63-0168-05)
Lock terminal board *
(E70-)
AC power cord *
(E30-)
AC110-120V~
AC220-240V~
ANTENNA
DE-EMPHASIS
CHANNEL SPACE
50μs
FM 50kHz
AM 9kHz
75μs
FM100kHz
AM 10kHz
AM
LOOP ANTENNA
FM 300Ω
FM75Ω
GND
AUX INPUT
R
L
SUPER WOOFER PRE OUT
SURROUND
ON
OFF
SURROUND SPEAKERS (8-16Ω)
FRONT SPEAKERS (6-16Ω)
+
-
-
+
L
R

Illustration is RXD-G4.
*** Refer to parts list on page 63.**

Cautions

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

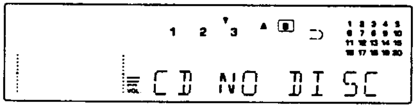
Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.

●Press the **CD(►/II)** key to check that no disc is present on the tray.

2. Wait a few seconds and verify that the display shown appears.


1 2 3
CD NO DISC

3. Turn the power OFF.

EXTERNAL VIEW

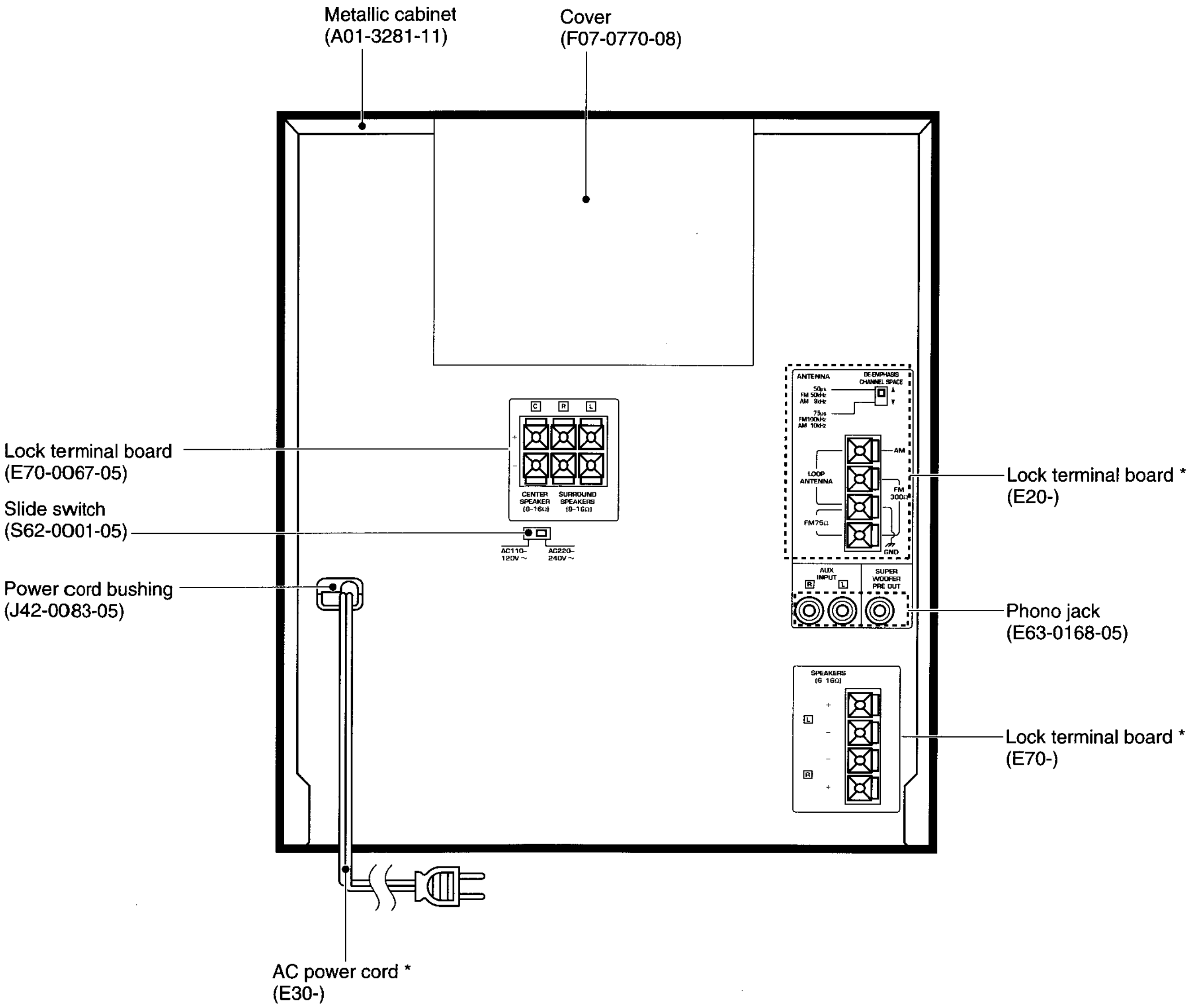
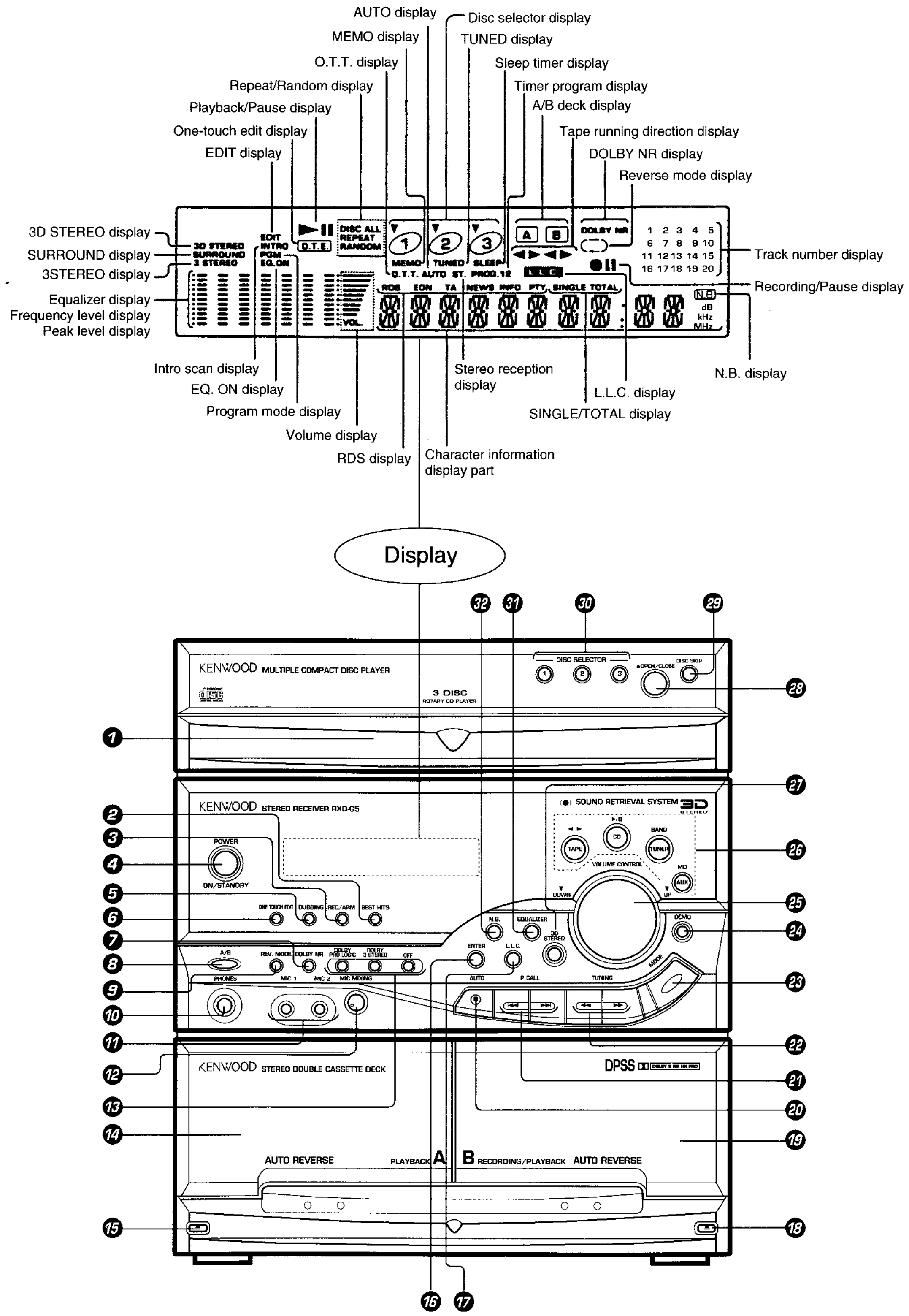

Metallic cabinet
(A01-3281-11)
Cover
(F07-0770-08)
Lock terminal board
(E70-0067-05)
Slide switch
(S62-0001-05)
Power cord bushing
(J42-0083-05)
AC power cord *
(E30-)
Lock terminal board *
(E20-)
Phono jack
(E63-0168-05)
Lock terminal board *
(E70-)
C
R
L
+
–
CENTER SPEAKER (8–16Ω)
SURROUND SPEAKERS (8–16Ω)
AC110–120V ~
AC220–240V ~
ANTENNA
DE-EMPHASIS CHANNEL SPACE
50μs FM 50kHz AM 9kHz
75μs FM100kHz AM 10kHz
AM
LOOP ANTENNA
FM 300Ω
FM75Ω
GND
AUX INPUT
R
L
SUPER WOOFER PRE OUT
SPEAKERS (6 16Ω)
L
R
+
–
–
+

Illustration is RXD-G5.
*** Refer to parts list on page 63.**


AUTO display
Disc selector display
MEMO display
TUNED display
O.T.T. display
Sleep timer display
Repeat/Random display
Timer program display
Playback/Pause display
A/B deck display
One-touch edit display
Tape running direction display
EDIT display
DOLBY NR display
Reverse mode display
3D STEREO display
SURROUND display
3STEREO display
Track number display
Recording/Pause display
Equalizer display
Frequency level display
Peak level display
Intro scan display
EQ. ON display
Program mode display
Volume display
RDS display
Character information display part
Stereo reception display
L.L.C. display
SINGLE/TOTAL display
N.B. display
Display
㉜
㉛
㉚
㉙
㉘
㉗
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⑰
KENWOOD MULTIPLE COMPACT DISC PLAYER
3 DISC ROTARY CD PLAYER
DISC SELECTOR
OPEN/CLOSE
DISC SKIP
KENWOOD STEREO RECEIVER RXD-G5
SOUND RETRIEVAL SYSTEM 3D STEREO
POWER
ON/STANDBY
ONE TOUCH EDIT
DUBBING
REC/ARM
BEST HITS
TAPE
CD
BAND
TUNER
VOLUME CONTROL
MD
AUX
DOWN
UP
N.B.
EQUALIZER
3D STEREO
DEMO
A/B
REV. MODE
DOLBY NR
DOLBY PRO LOGIC
DOLBY 3 STEREO
OFF
ENTER
L.L.C.
MODE
PHONES
MIC 1
MIC 2
MIC MIXING
AUTO
P.CALL
TUNING
KENWOOD STEREO DOUBLE CASSETTE DECK
DPSS
AUTO REVERSE
PLAYBACK A
B RECORDING/PLAYBACK
AUTO REVERSE

① Disc tray
Three discs can be stored.

☆ **② BEST HITS key**
Recording of one title of each stored CD in sequence on tape.

③ REC/ARM key
Recording is started. When this switch is pressed during recording, an unrecorded (blank) portion of about 4 sec is produced and then the tape stops.

④ POWER key
Power ON/OFF switching is executed.

⑤ DUBBING key
The contents of the tape of the A deck are copied to the tape of the B deck.

⑥ ONE TOUCH EDIT key
When this key is pressed during CD playback, only the title being played at that time will be recorded on tape. When this key is pressed during stop, the CD selected at that time will be recorded on tape from the first title onward.

⑦ DOLBY NR key
Dolby noise reduction ON/OFF switching is executed.

⑧ A/B key
The deck to be operated is selected. At the time of power OFF, power save ON/OFF is switched.

⑨ REV. MODE key
The reverse mode of the deck (both sides, repeated, one side) is switched.

⑩ PHONES terminal
For connection of a headphone (optional).

⑪ MIC 1, MIC 2 terminal
For connection of a microphone (optional).

⑫ MIC MIXING knob
At the time of mic mixing, the balance between the voice signal from the microphone and the playback signal is adjusted.

☆ **⑬ Keys related to DOLBY SURROUND**
DOLBY PRO LOGIC key
DOLBY PRO LOGIC is selected.
DOLBY 3 STEREO key
DOLBY 3 STEREO is selected.
OFF key
DOLBY PRO LOGIC or DOLBY 3 STEREO is cancelled.

⑭ A deck cassette holder

⑮ A deck eject (⏏) key
This is used to open the cassette holder at the time of cassette holder removal and insertion.

⑯ ENTER key
Used for time setting, timer setting, etc.

⑰ L.L.C. (Low Level Control) key
The level for quiet listening can be set in advance, and one-touch switching is possible.

⑱ B deck eject (⏏) key

⑲ B deck cassette holder

⑳ AUTO (■) key

For CD, TAPE:	Used as the **STOP** key.
For TUNER:	Used as **AUTO** key for tuning mode switching.
At the time of power OFF:	Used for time setting.

㉑ P.CALL (⏮ ⏭) key

For CD:	Used as **SKIP** key.
For TAPE:	Used for skip title selection.
For TUNER:	Used as the **P.CALL** key for selection of preset stations.

㉒ TUNING (◀◀ ▶▶) key

For CD, TAPE:	Used as fast forward and rapid reverse key.
For TUNER:	Used as **TUNING** key to tune in to stations.

㉓ MODE key
This key switches the function of the **VOLUME CONTROL** knob. The items which can be selected differ according to the status at that time.

㉔ DEMO key
Demonstration ON/OFF is switched.

㉕ VOLUME CONTROL knob
Normally this is used for volume adjustment. Depending on the purpose, the function can be switched with the **MODE** key.

㉖ Input selector keys
The input source is selected. When a key other than MD (AUX) is pressed while the power is OFF, the power is switched on automatically. When TAPE or CD has been selected and a tape or a disc has been set, playback will start automatically. When the ◀▶ **(TAPE)** key is pressed during tape playback, the tape running direction is reversed.

☆ **㉗ 3D STEREO key**
3D STEREO ON/OFF is switched.

㉘ OPEN/CLOSE (⏏) key
The disc tray is opened and closed.

㉙ DISC SKIP key
The disc for playback (or recording) is selected. This is also used for insertion of a CD to the inside of the disc tray.

㉚ DISC SELECTOR key
The disc for playback (or recording) is selected.

㉛ EQUALIZER key
The equalizer effect is switched ON/OFF and the type of equalizer effect is selected.

㉜ N.B. key
The low sounds are compensated at the time of listening at low volumes.

NOTE

Key-No. / MODEL	②	㉗	⑬
RXD-G3	BEST HITS	ENHANCE	X
RXD-G4	BEST HITS	3D STEREO	X
RXD-G5	BEST HITS	3D STEREO	O
RXD-G31	DIGITAL ECHO	ENHANCE	X
RXD-G51	DIGITAL ECHO	3D STEREO	X

CONTROLS

① Disc tray
Three discs can be stored.

☆ **② BEST HITS key**
Recording of one title of each stored CD in sequence on tape.

③ REC/ARM key
Recording is started. When this switch is pressed during recording, an unrecorded (blank) portion of about 4 sec is produced and then the tape stops.

④ POWER key
Power ON/OFF switching is executed.

⑤ DUBBING key
The contents of the tape of the A deck are copied to the tape of the B deck.

⑥ ONE TOUCH EDIT key
When this key is pressed during CD playback, only the title being played at that time will be recorded on tape. When this key is pressed during stop, the CD selected at that time will be recorded on tape from the first title onward.

⑦ DOLBY NR key
Dolby noise reduction ON/OFF switching is executed.

⑧ A/B key
The deck to be operated is selected. At the time of power OFF, power save ON/OFF is switched.

⑨ REV. MODE key
The reverse mode of the deck (both sides, repeated, one side) is switched.

⑩ PHONES terminal
For connection of a headphone (optional).

⑪ MIC 1, MIC 2 terminal
For connection of a microphone (optional).

⑫ MIC MIXING knob
At the time of mic mixing, the balance between the voice signal from the microphone and the playback signal is adjusted.

☆ **⑬ Keys related to DOLBY SURROUND**
DOLBY PRO LOGIC key
DOLBY PRO LOGIC is selected.
DOLBY 3 STEREO key
DOLBY 3 STEREO is selected.
OFF key
DOLBY PRO LOGIC or DOLBY 3 STEREO is cancelled.

⑭ A deck cassette holder

⑮ A deck eject (⏏) key
This is used to open the cassette holder at the time of cassette holder removal and insertion.

⑯ ENTER key
Used for time setting, timer setting, etc.

⑰ L.L.C. (Low Level Control) key
The level for quiet listening can be set in advance, and one-touch switching is possible.

⑱ B deck eject (⏏) key

⑲ B deck cassette holder

⑳ AUTO (■) key

For CD, TAPE:	Used as the **STOP** key.
For TUNER:	Used as **AUTO** key for tuning mode switching.
At the time of power OFF:	Used for time setting.

㉑ P.CALL (⏮ ⏭) key

For CD:	Used as **SKIP** key.
For TAPE:	Used for skip title selection.
For TUNER:	Used as the **P.CALL** key for selection of preset stations.

㉒ TUNING (◀◀ ▶▶) key

For CD, TAPE:	Used as fast forward and rapid reverse key.
For TUNER:	Used as **TUNING** key to tune in to stations.

㉓ MODE key
This key switches the function of the **VOLUME CONTROL** knob. The items which can be selected differ according to the status at that time.

㉔ DEMO key
Demonstration ON/OFF is switched.

㉕ VOLUME CONTROL knob
Normally this is used for volume adjustment. Depending on the purpose, the function can be switched with the **MODE** key.

㉖ Input selector keys
The input source is selected. When a key other than MD (AUX) is pressed while the power is OFF, the power is switched on automatically. When TAPE or CD has been selected and a tape or a disc has been set, playback will start automatically. When the ◀▶ (**TAPE**) key is pressed during tape playback, the tape running direction is reversed.

☆ **㉗ 3D STEREO key**
3D STEREO ON/OFF is switched.

㉘ OPEN/CLOSE (⏏) key
The disc tray is opened and closed.

㉙ DISC SKIP key
The disc for playback (or recording) is selected. This is also used for insertion of a CD to the inside of the disc tray.

㉚ DISC SELECTOR key
The disc for playback (or recording) is selected.

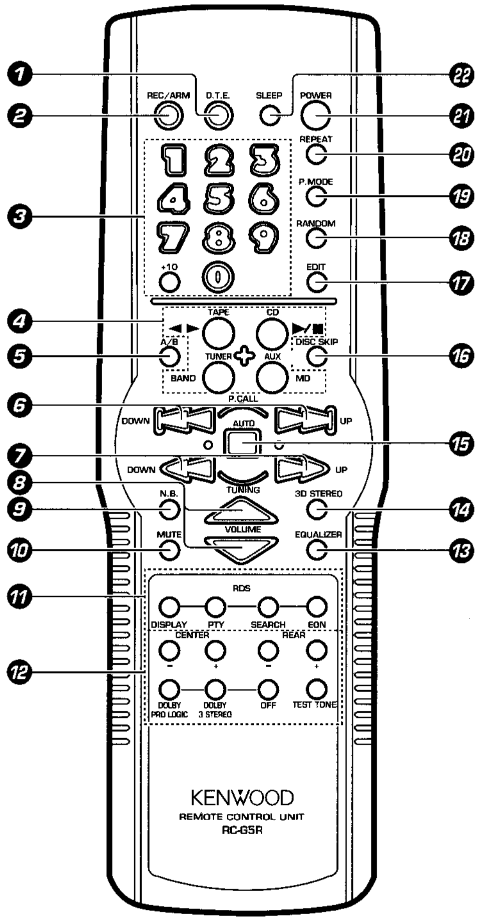
㉛ EQUALIZER key
The equalizer effect is switched ON/OFF and the type of equalizer effect is selected.

㉜ N.B. key
The low sounds are compensated at the time of listening at low volumes.

NOTE

Key-No. / MODEL	②	㉗	⑬
RXD-G3	BEST HITS	ENHANCE	X
RXD-G4	BEST HITS	3D STEREO	X
RXD-G5	BEST HITS	3D STEREO	O
RXD-G31	DIGITAL ECHO	ENHANCE	X
RXD-G51	DIGITAL ECHO	3D STEREO	X

REMOTE CONTROL UNIT



The keys on the remote control unit with the same name as on the main unit have the same function as the keys on the main unit

MODEL	Key-No.	⑪	⑫	⑭
RXD-G3,G31	RC-G3	X	X	ENHANCE
RXD-G4(T,E)	RC-G4R	O	X	3D STEREO
RXD-G4 (K,P,Y,M,C,X) RXD-G51	RC-G4	X	X	3D STEREO
RXD-G5(T,E)	RC-G5R	O	O	3D STEREO
RXD-G5 (K,P,Y,M,C,X)	RC-G5	X	O	3D STEREO

① O.T.E. key
This key has the same function as the **ONE TOUCH EDIT** key on the main unit.

② REC/ARM key

③ Numeric keys
Used as number keys when the input is switched to CD.

④ Input selector keys

⑤ A/B key

⑥ P.CALL (Preset Call) (⏮ ⏭) keys

⑦ TUNING (◀◀ ▶▶) keys

⑧ VOLUME keys
This has the same function as the **VOLUME CONTROL** knob on the main unit. However, the AI VOLUME function does not operate.

⑨ N.B. key

⑩ MUTE key
This is used to mute the sound temporarily.

⑪ Keys related to RDS
DISPLAY key
The display contents are switched during reception of RDS broadcasts.
PTY (Program Type) key
This is used to specify the program type when searching for a station.
SEARCH key
Used to search for a station when the program type has been specified.
EON key
Used for automatic reception of transmissions of a certain content.

⑫ Keys related to DOLBY SURROUND
CENTER (+ –) key
For adjustment of the center level.
REAR (+ –) key
For adjustment of the rear level.
DOLBY PRO LOGIC key
DOLBY 3 STEREO key
OFF key
TEST TONE key
Test tone output is switched ON/OFF at the time of center level and rear level adjustment.

⑬ EQUALIZER key

⑭ 3D STEREO key

⑮ AUTO (■) key

⑯ DISC SKIP key

⑰ EDIT key
Used for CD edit recording (time edit recording).

⑱ RANDOM key
For CD playback, switching is executed between introduction scanning, random playback, and normal playback.

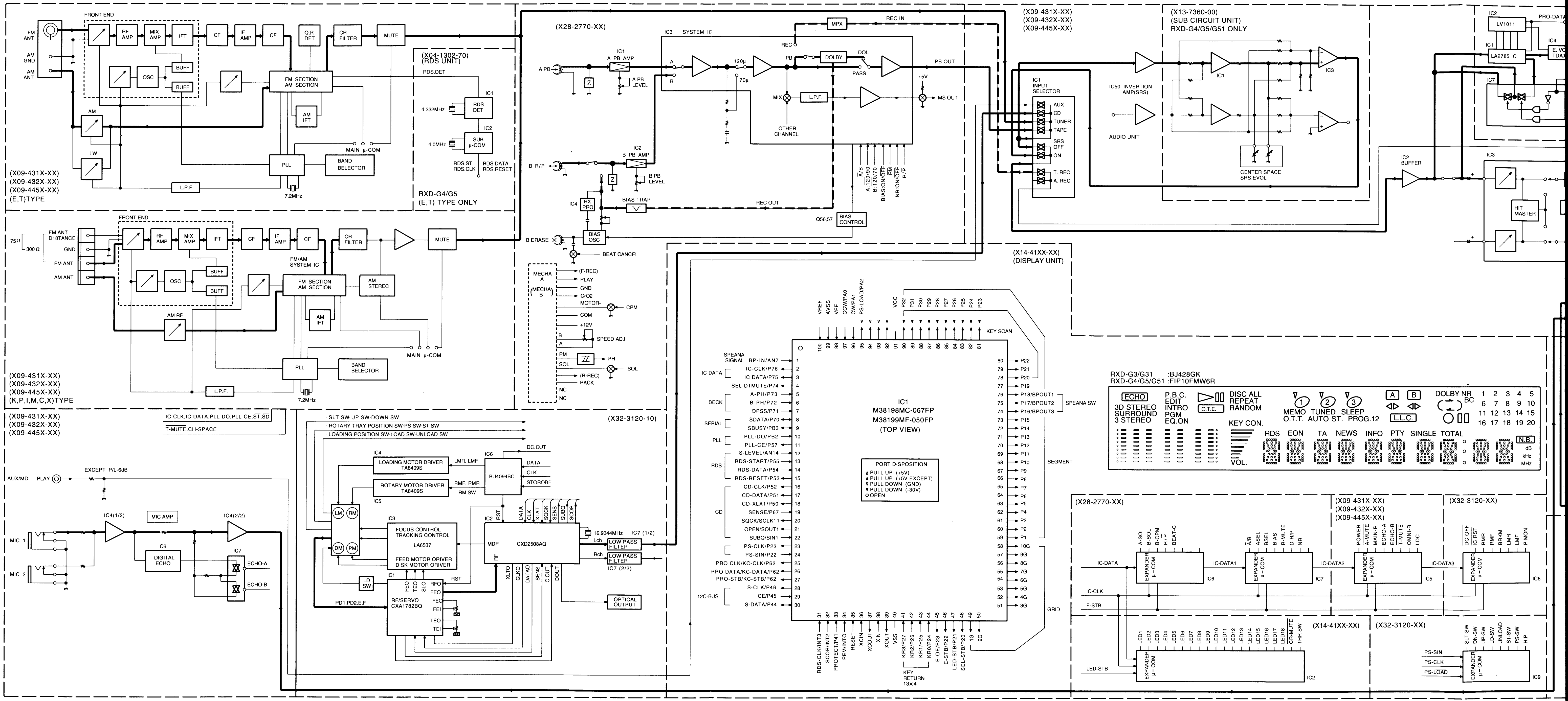
⑲ P.MODE key
Used to program the CD playback sequence.

⑳ REPEAT key
Used for repeated playback of a CD.

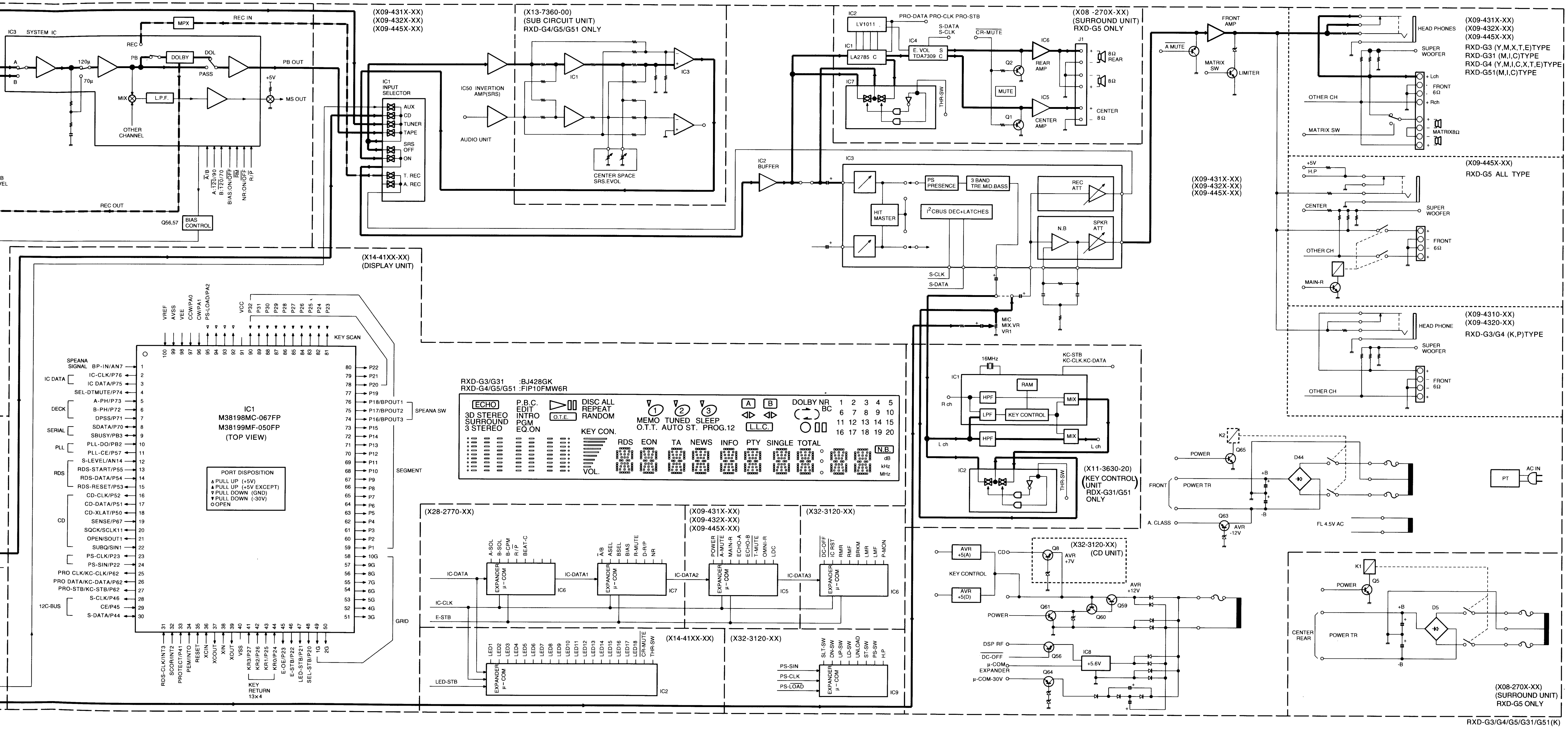
㉑ POWER key

㉒ SLEEP key
Use to set the sleep timer.

BLOCK DIAGRAM


FRONT END
FM ANT
AM GND
AM ANT
RF AMP
MIX AMP
IFT
CF
IF AMP
CF
Q.R DET
CR FILTER
MUTE
OSC
BUFF
BUFF
FM SECTION
AM SECTION
AM
AM IFT
LW
PLL
BAND BELECTOR
L.P.F.
7.2MHz
MAIN μ-COM
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
(E,T)TYPE
(X04-1302-70)
(RDS UNIT)
RDS.DET
IC1
4.332MHz
RDS DET
IC2
4.0MHz
SUB μ-COM
RDS.ST
RDS.CLK
RDS.DATA
RDS.RESET
RXD-G4/G5
(E,T) TYPE ONLY
75Ω
300Ω
FM ANT
D18TANCE
GND
FM ANT
AM ANT
FM/AM SYSTEM IC
AM STEREC
AM RF
7.2MHz
(K,P,I,M,C,X)TYPE
IC-CLK,IC-DATA,PLL-DO,PLL-CE,ST,SD
T-MUTE,CH-SPACE
AUX/MD
PLAY
EXCEPT P/L-6dB
MIC 1
MIC 2
IC4(1/2)
MIC AMP
IC4(2/2)
IC6
DIGITAL ECHO
IC7
ECHO-A
ECHO-B
(X28-2770-XX)
IC3 SYSTEM IC
MPX
REC IN
A PB
IC1
A PB AMP
A PB LEVEL
120μ
70μ
REC
PB
DOLBY
DOL
PASS
PB OUT
+5V
MS OUT
MIX
L.P.F.
OTHER CHANNEL
A/B
A 120/90
B 120/70
BIAS.ON/OFF
RM
NR.ON/OFF
R/P
B R/P
IC2
B PB AMP
B PB LEVEL
IC4
HX PRO
BIAS TRAP
REC OUT
Q56,57
BIAS CONTROL
B ERASE
BIAS OSC
BEAT CANCEL
MECHA A
(MECHA B)
(F-REC)
PLAY
GND
CrO2
MOTOR-
CPM
COM
+12V
SPEED ADJ
B
A
PM
PH
SOL
SOL
(R-REC)
PACK
NC
NC
(X32-3120-10)
SLT SW·UP SW·DOWN SW
ROTARY TRAY POSITION SW·PS SW·ST SW
LOADING POSITION SW·LOAD SW·UNLOAD SW
IC4
LOADING MOTOR DRIVER TA8409S
LMR. LMF
IC6
BU4094BC
DC.CUT
DATA
CLK
STOROBE
ROTARY MOTOR DRIVER TA8409S
RMF. RMR
RM SW
IC5
LM
RM
DM
PM
IC3
FOCUS CONTROL
TRACKING CONTROL
LA6537
FEED MOTOR DRIVER
DISK MOTOR DRIVER
IC2
RST
DATA
CLK
XLAT
SQCK
SENS
SUBQ
SCOR
MDP
CXD2508AQ
16.9344MHz
IC7 (1/2)
Lch
Rch
LOW PASS FILTER
LOW PASS FILTER
IC7 (2/2)
LD SW
IC1
FEO
TEO
SLO
RFO
FEO
FEC
FEI
TEO
TEI
RF/SERVO CXA1782BQ
PD1,PD2,E,F
RST
XLTO
CLKO
DATAO
SENS
C.OUT
DOUT
RF
OPTICAL OUTPUT
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
IC1 INPUT SELECTOR
AUX
CD
TUNER
TAPE
SRS OFF
ON
T. REC
A. REC
(X13-7360-00)
(SUB CIRCUIT UNIT)
RXD-G4/G5/G51 ONLY
IC50 INVERTION AMP(SRS)
AUDIO UNIT
IC1
IC3
CENTER SPACE SRS.EVOL
IC2 BUFFER
IC2
LV1011
PRO-DATA
IC1
LA2785 C
IC4
E. VO
TDA7
IC7
IC3
HIT MASTER
(X14-41XX-XX)
(DISPLAY UNIT)
VREF
AVSS
VEE
CCW/PA0
CW/PA1
PS-LOAD/PA2
VCC
P32
P31
P30
P29
P28
P27
P26
P25
P24
P23
KEY SCAN
SPEANA SIGNAL BP-IN/AN7
IC DATA
IC-CLK/P76
IC DATA/P75
SEL-DTMUTE/P74
DECK
A-PH/P73
B-PH/P72
DPSS/P71
SERIAL
SDATA/P70
SBUSY/PB3
PLL
PLL-DO/PB2
PLL-CE/P57
S-LEVEL/AN14
RDS
RDS-START/P55
RDS-DATA/P54
RDS-RESET/P53
CD
CD-CLK/P52
CD-DATA/P51
CD-XLAT/P50
SENSE/P67
SQCK/SCLK11
OPEN/SOUT1
SUBQ/SIN1
PS-CLK/P23
PS-SIN/P22
PRO CLK/KC-CLK/P62
PRO DATA/KC-DATA/P62
PRO-STB/KC-STB/P62
12C-BUS
S-CLK/P46
CE/P45
S-DATA/P44
IC1
M38198MC-067FP
M38199MF-050FP
(TOP VIEW)
PORT DISPOSITION
▲PULL UP (+5V)
△PULL UP (+5V EXCEPT)
▼PULL DOWN (GND)
▽PULL DOWN (-30V)
○OPEN
P22
P21
P20
P19
P18/BPOUT1
P17/BPOUT2
P16/BPOUT3
SPEANA SW
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
SEGMENT
10G
9G
8G
7G
6G
5G
4G
3G
GRID
RDS-CLK/INT3
SCORINT2
PROTECT/P41
PEMINTO
RESET
XCIN
XCOUT
XIN
XOUT
VSS
KR3/P27
KR2/P26
KR1/P25
KR0/P24
E-OE/P23
E-STB/P22
LED-STB/P21
SEL-STB/P20
1G
2G
KEY RETURN 13×4
RXD-G3/G31 :BJ428GK
RXD-G4/G5/G51 :FIP10FMW6R
ECHO
3D STEREO
SURROUND
3 STEREO
P.B.C.
EDIT
INTRO
PGM
EQ.ON
O.T.E.
DISC ALL
REPEAT
RANDOM
KEY CON.
1 2 3
MEMO TUNED SLEEP
O.T.T. AUTO ST. PROG.12
A B
L.L.C.
DOLBY NR
BC
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
VOL.
RDS EON TA NEWS INFO PTY SINGLE TOTAL
N.B.
dB
kHz
MHz
(X28-2770-XX)
A-SOL
B-SOL
CPM
R/P
BEAT-C
IC-DATA
EXPANDER μ-COM
IC6
IC-DATA1
A/B
ASEL
BSEL
BIAS
P-MUTE
D-R/P
NR
IC7
IC-DATA2
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
POWER
A-MUTE
MAIN-R
ECHO-A
ECHO-B
T-MUTE
OMNI-R
LDC
IC5
IC-DATA3
(X32-3120-XX)
DC-OFF
IC RST
RMF
RMR
BRKM
LMR
LMF
P-MON
IC6
IC-CLK
E-STB
(X14-41XX-XX)
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18
CR-MUTE
THR-SW
LED-STB
IC2
(X32-3120-XX)
SLT-SW
DN-SW
UP-SW
LD-SW
UNLOAD
ST-SW
PS-SW
H.P
PS-SIN
PS-CLK
PS-LOAD
IC9

BLOCK DIAGRAM


IC3 SYSTEM IC
REC IN
MPX
REC
DOLBY
DOL
PB
PB OUT
PASS
120µ
70µ
MIX
L.P.F.
+5V
MS OUT
OTHER CHANNEL
A/B
A.T120/90
B.T120/70
BIAS.ON/OFF
RM
NR.ON/OFF
R/P
REC OUT
Q56,57
BIAS CONTROL
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
IC1 INPUT SELECTOR
AUX
CD
TUNER
TAPE
SRS OFF
ON
T. REC
A. REC
(X13-7360-00)
(SUB CIRCUIT UNIT)
RXD-G4/G5/G51 ONLY
IC50 INVERTION AMP(SRS)
AUDIO UNIT
IC1
IC3
CENTER SPACE
SRS.EVOL
IC2 BUFFER
IC2
LV1011
PRO-DATA PRO-CLK PRO-STB
S-DATA
S-CLK
CR-MUTE
IC1
LA2785 C
IC4
E. VOL S
TDA7309 C
IC7
THR-SW
IC6
Q2
REAR AMP
MUTE
IC5
Q1
CENTER AMP
(X08-270X-XX)
(SURROUND UNIT)
RXD-G5 ONLY
J1
8Ω
REAR
8Ω
CENTER
8Ω
IC3
PS PRESENCE
3 BAND TRE.MID.BASS
REC ATT
HIT MASTER
I2CBUS DEC+LATCHES
N.B
SPKR ATT
S-CLK
S-DATA
MIC
MIX.VR
VR1
FRONT AMP
A MUTE
MATRIX SW
LIMITER
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
HEAD PHONES
SUPER WOOFER
Lch
FRONT 6Ω
Rch
OTHER CH
MATRIX SW
MATRIX8Ω
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
RXD-G3 (Y,M,X,T,E)TYPE
RXD-G31 (M,I,C)TYPE
RXD-G4 (Y,M,I,C,X,T,E)TYPE
RXD-G51(M,I,C)TYPE
(X09-445X-XX)
RXD-G5 ALL TYPE
+5V
H.P
CENTER
SUPER WOOFER
OTHER CH
FRONT 6Ω
MAIN-R
(X09-4310-XX)
(X09-4320-XX)
RXD-G3/G4 (K,P)TYPE
HEAD PHONE
SUPER WOOFER
FRONT 6Ω
OTHER CH
(X14-41XX-XX)
(DISPLAY UNIT)
VREF
AVSS
VEE
COM/PA0
COM/PA1
PS-LOAD/PA2
VCC
P32
P31
P30
P29
P28
P27
P26
P25
P24
P23
KEY SCAN
SPEANA SIGNAL BP-IN/AN7
IC DATA IC-CLK/P76
IC DATA/P75
SEL-DTMUTE/P74
DECK A-PH/P73
B-PH/P72
DPSS/P71
SERIAL SDATA/P70
SBUSY/PB3
PLL PLL-DO/PB2
PLL-CE/P57
S-LEVEL/AN14
RDS RDS-START/P55
RDS-DATA/P54
RDS-RESET/P53
CD CD-CLK/P52
CD-DATA/P51
CD-XLAT/P50
SENSE/P67
SQCK/SCLK11
OPEN/SOUT1
SUBQ/SIN1
PS-CLK/P23
PS-SIN/P22
PRO CLK/KC-CLK/P62
PRO DATA/KC-DATA/P62
PRO-STB/KC-STB/P62
12C-BUS S-CLK/P46
CE/P45
S-DATA/P44
IC1
M38198MC-067FP
M38199MF-050FP
(TOP VIEW)
PORT DISPOSITION
▵PULL UP (+5V)
▵PULL UP (+5V EXCEPT)
▾PULL DOWN (GND)
▾PULL DOWN (-30V)
○OPEN
P22
P21
P20
P19
P18/BPOUT1
P17/BPOUT2
P16/BPOUT3
SPEANA SW
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
10G
9G
8G
7G
6G
5G
4G
3G
SEGMENT
GRID
RDS-CLK/INT3
SCOR/INT2
PROTECT/P41
PEM/INTO
RESET
XCIN
XCOUT
XIN
XOUT
VSS
KR3/P27
KR2/P26
KR1/P25
KR0/P24
E-OE/P23
LED-STB/P21
SEL-STB/P20
1G
2G
KEY RETURN 13×4
RXD-G3/G31 :BJ428GK
RXD-G4/G5/G51 :FIP10FMW6R
ECHO
3D STEREO
SURROUND
3 STEREO
P.B.C.
EDIT
INTRO
PGM
EQ.ON
O.T.E.
DISC ALL
REPEAT
RANDOM
KEY CON.
MEMO
O.T.T.
TUNED
AUTO ST.
SLEEP
PROG.12
A
B
L.L.C.
DOLBY NR
BC
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
RDS EON TA NEWS INFO PTY SINGLE TOTAL
N.B.
dB
kHz
MHz
VOL.
(X28-2770-XX)
A-SOL
B-SOL
B-CPM
R/P
BEAT-C
IC-DATA
EXPANDER µ-COM
IC6
IC-DATA1
A/B
ASEL
BSEL
BIAS
R-MUTE
D-R/P
NR
IC7
(X09-431X-XX)
(X09-432X-XX)
(X09-445X-XX)
POWER
A-MUTE
MAIN-R
ECHO-A
ECHO-B
T-MUTE
OMNI-R
LDC
IC-DATA2
IC5
(X32-3120-XX)
DC-OFF
IC RST
RMR
RMF
BRKM
LMR
LMF
P-MON
IC-DATA3
IC6
IC-CLK
E-STB
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED12
LED13
LED14
LED15
LED16
LED17
LED18
CR-MUTE
THR-SW
(X14-41XX-XX)
LED-STB
IC2
(X32-3120-XX)
SLT-SW
DN-SW
UP-SW
LD-SW
UN-LOAD
ST-SW
PS-SW
H.P
PS-SIN
PS-CLK
PS-LOAD
IC9
KC-STB
KC-CLK.KC-DATA
16MHz
IC1
R ch
HPF
LPF
RAM
KEY CONTROL
MIX
L ch
IC2
THR-SW
(X11-3630-20)
(KEY CONTROL UNIT)
RDX-G31/G51 ONLY
AVR +5(A)
CD
KEY CONTROL
AVR +5(D)
(X32-3120-XX)
(CD UNIT)
Q8
AVR +7V
AVR +12V
POWER
Q61
Q59
Q60
DSP RF
DC-OFF
µ-COM
EXPANDER
µ-COM-30V
Q56
IC8
+5.6V
Q64
K2
POWER
Q65
D44
FRONT
POWER TR
+B
-B
A. CLASS
Q63
AVR -12V
FL 4.5V AC
PT
AC IN
K1
POWER
Q5
+B
D5
CENTER REAR
POWER TR
-B
(X08-270X-XX)
(SURROUND UNIT)
RXD-G5 ONLY
RXD-G3/G4/G5/G31/G51(K)

RXD-G3/G4/G5/G31/G51

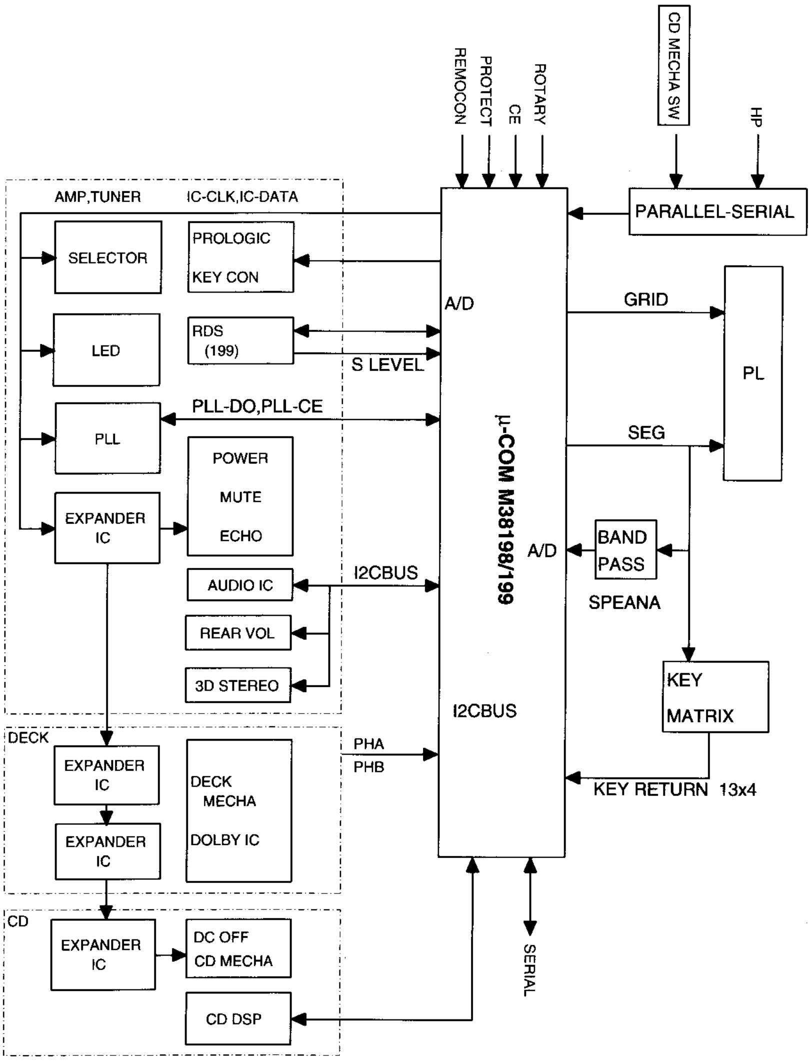
CIRCUIT DESCRIPTION

1. MAIN μ-COM (M38198MC-069FP/M38198MF-051FP) (X14 : IC 1)

1-1. Function

		RXD-G3		RXD-G4		RXD-G5	RXD-G31	RXD-G51
		K,P	Y,M,X,T,E	K,P	Y,M,I,C,X,T,E	K,P,Y,M,I,C,X,T,E	M,I,C	M,I,C
	CD Player	3 DISC						
TUNER	FM Stereo	○						
	LW	T only						
AMP	POWER	50W+50W		70W+70W			50W+50W	70W+70W
	Surround matrix terminal		○		○		○	○
	L.L.C	○						
	SRS(3D stereo)			○				○
	Digital echo						○	
	Best hit	○						
	DOLBY PROLOGIC					○		
	DOLBY 3 stereo					○		
DECK	W-DECK MECHA	FULL LOGIC REVERSE						
	HX PRO			○				○
	Normal speed	○						
	B DECK recording	○						

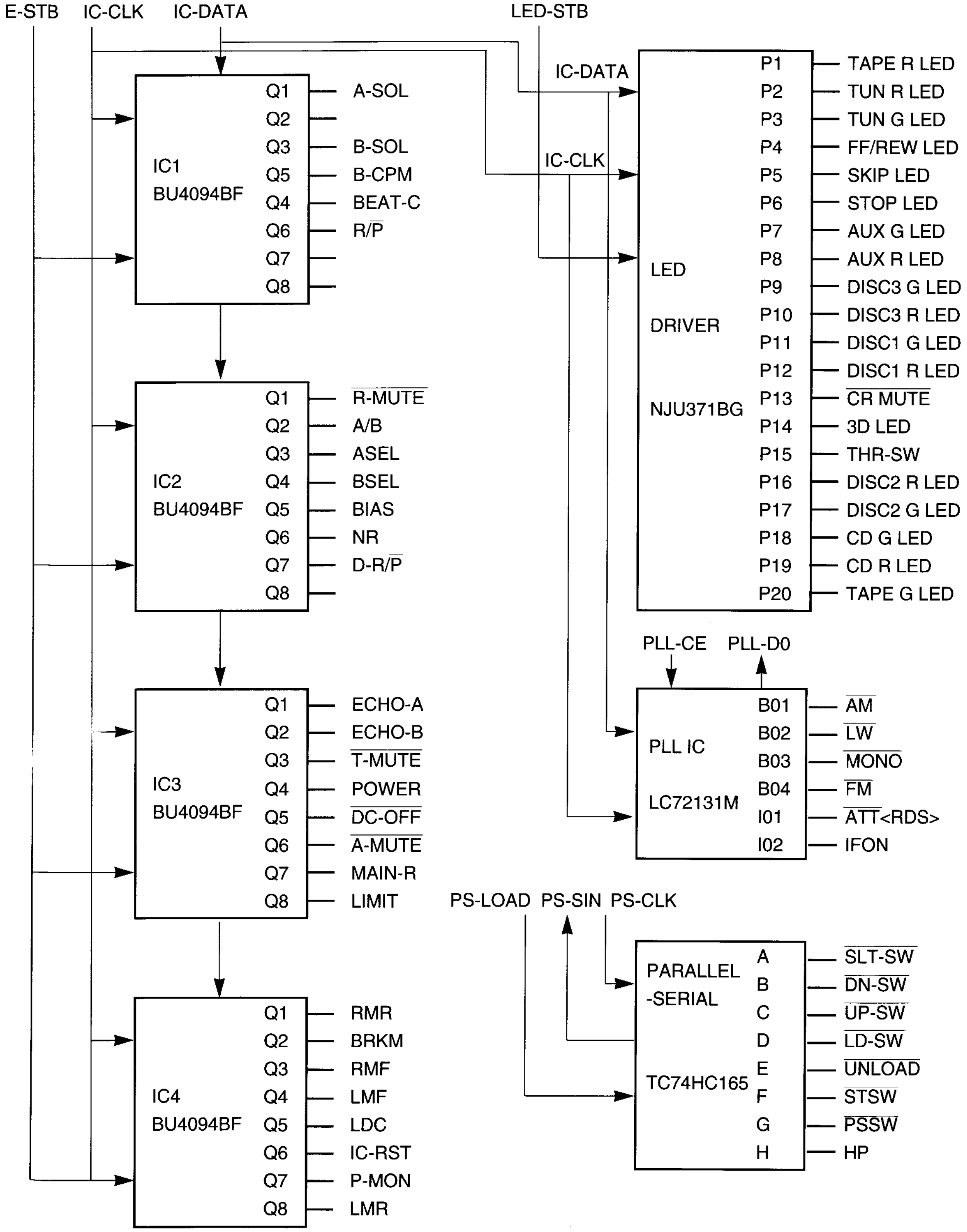
1-2. Microproccesor periphery block diagram



REMOCON
PROTECT
CE
ROTARY
CD MECHA SW
HP
AMP,TUNER
IC-CLK,IC-DATA
SELECTOR
PROLOGIC
KEY CON
LED
RDS
(199)
S LEVEL
A/D
PLL-DO,PLL-CE
PLL
POWER
MUTE
ECHO
EXPANDER
IC
AUDIO IC
I2CBUS
REAR VOL
3D STEREO
PARALLEL-SERIAL
GRID
PL
SEG
μ-COM M38198/199
BAND
PASS
A/D
SPEANA
KEY
MATRIX
I2CBUS
DECK
EXPANDER
IC
DECK
MECHA
DOLBY IC
PHA
PHB
KEY RETURN 13x4
CD
EXPANDER
IC
DC OFF
CD MECHA
CD DSP
SERIAL

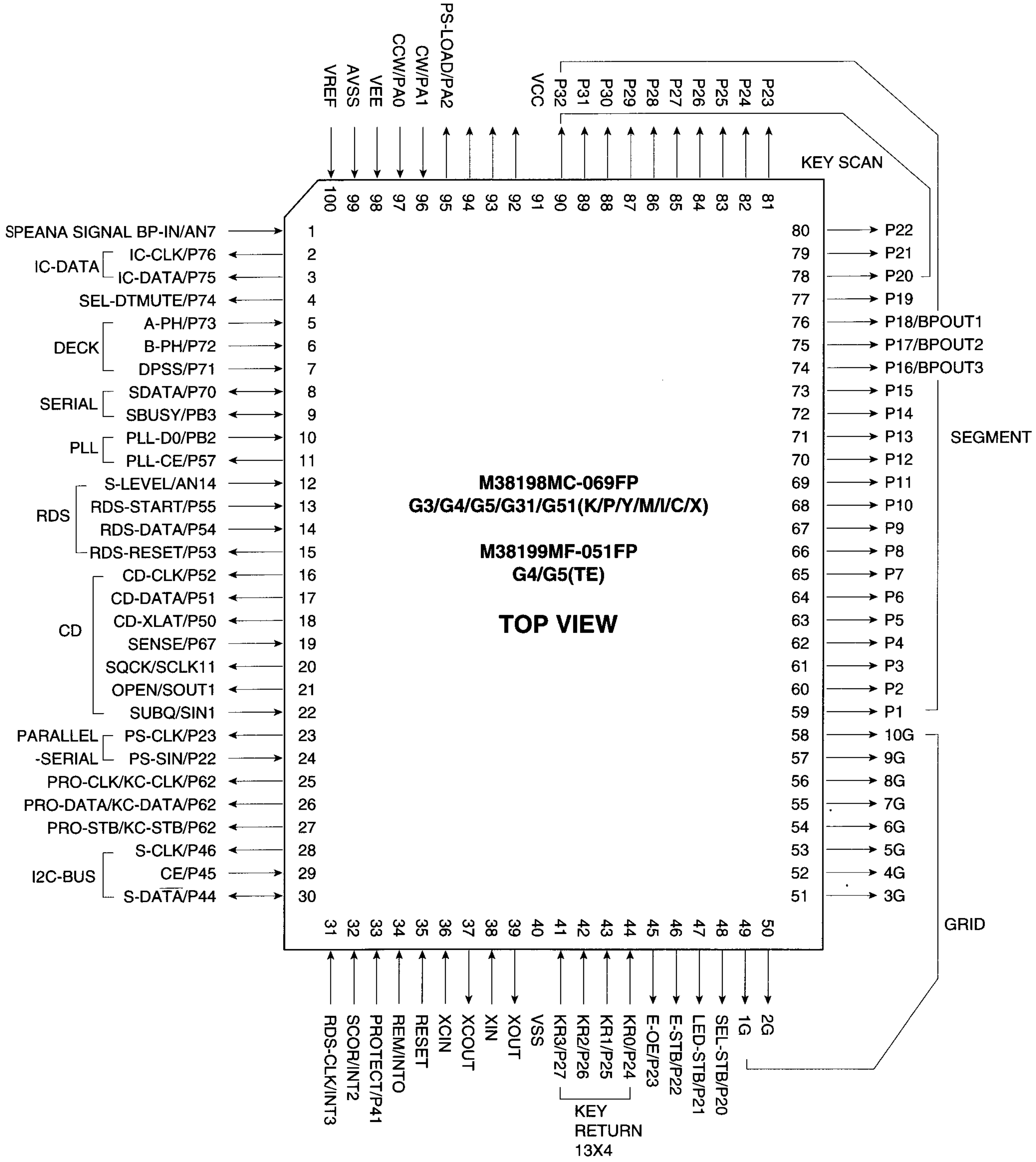
CIRCUIT DESCRIPTION

1-3. Expander port connection


E-STB
IC-CLK
IC-DATA
LED-STB
IC1
BU4094BF
Q1 A-SOL
Q2
Q3 B-SOL
Q5 B-CPM
Q4 BEAT-C
Q6 R/P
Q7
Q8
IC2
BU4094BF
Q1 R-MUTE
Q2 A/B
Q3 ASEL
Q4 BSEL
Q5 BIAS
Q6 NR
Q7 D-R/P
Q8
IC3
BU4094BF
Q1 ECHO-A
Q2 ECHO-B
Q3 T-MUTE
Q4 POWER
Q5 DC-OFF
Q6 A-MUTE
Q7 MAIN-R
Q8 LIMIT
IC4
BU4094BF
Q1 RMR
Q2 BRKM
Q3 RMF
Q4 LMF
Q5 LDC
Q6 IC-RST
Q7 P-MON
Q8 LMR
IC-DATA
IC-CLK
LED
DRIVER
NJU371BG
P1 TAPE R LED
P2 TUN R LED
P3 TUN G LED
P4 FF/REW LED
P5 SKIP LED
P6 STOP LED
P7 AUX G LED
P8 AUX R LED
P9 DISC3 G LED
P10 DISC3 R LED
P11 DISC1 G LED
P12 DISC1 R LED
P13 CR MUTE
P14 3D LED
P15 THR-SW
P16 DISC2 R LED
P17 DISC2 G LED
P18 CD G LED
P19 CD R LED
P20 TAPE G LED
PLL-CE
PLL-D0
PLL IC
LC72131M
B01 AM
B02 LW
B03 MONO
B04 FM
I01 ATT<RDS>
I02 IFON
PS-LOAD
PS-SIN
PS-CLK
PARALLEL
-SERIAL
TC74HC165
A SLT-SW
B DN-SW
C UP-SW
D LD-SW
E UNLOAD
F STSW
G PSSW
H HP

CIRCUIT DESCRIPTION

1-4. Pin connection


VREF
AVSS
VEE
CCW/PA0
CW/PA1
PS-LOAD/PA2
VCC
P32
P31
P30
P29
P28
P27
P26
P25
P24
P23
KEY SCAN
100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
SPEANA SIGNAL BP-IN/AN7 1
IC-DATA
IC-CLK/P76 2
IC-DATA/P75 3
SEL-DTMUTE/P74 4
DECK
A-PH/P73 5
B-PH/P72 6
DPSS/P71 7
SERIAL
SDATA/P70 8
SBUSY/PB3 9
PLL
PLL-D0/PB2 10
PLL-CE/P57 11
RDS
S-LEVEL/AN14 12
RDS-START/P55 13
RDS-DATA/P54 14
RDS-RESET/P53 15
CD
CD-CLK/P52 16
CD-DATA/P51 17
CD-XLAT/P50 18
SENSE/P67 19
SQCK/SCLK11 20
OPEN/SOUT1 21
SUBQ/SIN1 22
PARALLEL -SERIAL
PS-CLK/P23 23
PS-SIN/P22 24
PRO-CLK/KC-CLK/P62 25
PRO-DATA/KC-DATA/P62 26
PRO-STB/KC-STB/P62 27
I2C-BUS
S-CLK/P46 28
CE/P45 29
S-DATA/P44 30
80 P22
79 P21
78 P20
77 P19
76 P18/BPOUT1
75 P17/BPOUT2
74 P16/BPOUT3
73 P15
72 P14
71 P13
70 P12
69 P11
68 P10
67 P9
66 P8
65 P7
64 P6
63 P5
62 P4
61 P3
60 P2
59 P1
SEGMENT
58 10G
57 9G
56 8G
55 7G
54 6G
53 5G
52 4G
51 3G
GRID
M38198MC-069FP
G3/G4/G5/G31/G51(K/P/Y/M/I/C/X)
M38199MF-051FP
G4/G5(TE)
TOP VIEW
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
RDS-CLK/INT3
SCOR/INT2
PROTECT/P41
REM/INT0
RESET
XCIN
XCOUT
XIN
XOUT
VSS
KR3/P27
KR2/P26
KR1/P25
KR0/P24
E-OE/P23
E-STB/P22
LED-STB/P21
SEL-STB/P20
1G
2G
KEY
RETURN
13X4

CIRCUIT DESCRIPTION

1-5. Pin description

Pin No.	I/O	Name	Description
1	I	BP-IN	Speana input(A/D convertor input)
2	O	I C-CLK	IC-CLOCK(BU4094BF · NJU7313AM,NJU3718G · LC7218,LC83025E)
3	O	IC-DATA	Selector/LED driver/Expander IC data
4	O	SEL-DTMUTE	Selector IC data mute(NJU7313AM)
5	I	A-PH	A photo sensor input
6	I	B-PH	B photo sensor input
7	I	DPSS	DPSS detection
8	I/O	SDATA	Serial communication data
9	I/O	SBUSY	Serial communication busy
10	I	PLL-DO	PLL(LC7218)data input
11	O	PLL-CE	PLL(LC7218)chip enable
12	I	S-LEVEL	RDS signal level
13	I	RDS-START	RDS IC start
14	I	RDS-DATA	RDS IC data
15	O	RDS-RESET	RDS IC control reset
16	O	CD-XLAT	CD latch output (CXA1782BQ,CXD2508Q)
17	O	CD-DATA	CD IC DATA(CXA1782BQ · CXD2508Q)
18	O	CD-CLK	CD IC CLK(CXA1782BQ · CXD2508Q)
19	I	SENSE	CD sense input(CXA1782BQ,CXD2508Q)
20	O	SQCK	Sub cord clock(CXD2508Q)
21	O	(OPEN)	Unused
22	I	SUBQ	Sub code data(CX2508Q)
23	O	PS-CLK	Parallel serial IC clock
24	I	PS-SIN	Parallel serial IC data
25	O	PRO-CLK	Dolby PROLOGIC IC(LA2785,LV1010N)clock
26	O	PRO-DT	Dolby PROLOGIC IC(LA2785,LV1010N) data
27	O	PRO-STB	Dolby PROLOGIC IC(LA2785,LV1010N)strobe
28	O	S-CLK	Surround IC clock(TDA7315,TDA7345)
29	I	$\overline{\text{CE}}$	Power failure input
30	I/O	S-DATA	Surround IC data(TDA7315 · TDA7345)
31	I	RDS-CLK	RDS IC clock
32	I	SCOR	Sub code(CXD2508Q)
33	I	PROTECT	Protection input
34	I	REM	Remote control input
35		$\overline{\text{RESET}}$	Reset
36	I	Xcin	Timer clock input(32.768KHz)
37	O	Xcout	
38	I	Xin	Main clock input(8.38MHz)
39	O	Xout	
40		Vss	(GND)
41 ~ 44	I	KR3 ~ KR0	Key return 3 ~ 0
45	O	E-OE	Expander IC(BU4094BC) enable control
46	O	E-STB	Expander IC(BU4094BC) strobe control
47	O	LED-STB	LED IC strobe
48	O	SEL-STB	Selector IC strobe

Pin No.	I/O	Name	Description
49 ~ 58	O	1G ~ 10G	FL grid output 1G ~ 10G
59 ~ 73	O	P1 ~ P15	FL segment output P1 ~ P15
74 ~ 76	O	P16/BPOOT3 ~ P18/BPOOT1	FL segment output/band pass filter control 3 ~ 1
77	O	P19	FL segment output
78 ~ 90	O	P20/KEY13 ~ P32/KEY1	FL segment/Key output/Key scan output
91		Vcc	(Micom power)
92 ~ 94	O		Unused
95	O	PS-LOAD	Parallel serial IC load H : SHIFT L : LOAD
96	I	CW	Rotary encoder input B
97	I	CW	Rotary encoder input A
98	I	Vee	Full down power
99	I	AVss	A/D GND
100	I	Vref	A/D reference voltage

1-6. Key scan line input

Name	Description
SLT	CD limit SW
DNSW	CD down SW
UPSW	CD up SW
LDSW	CD load SW
$\overline{\text{UNLOAD}}$	CD unload SW
A-PACK	A deck tape detection
B-PACK	B deck tape detection
A-CrO2	A deck Normal/CrO2 detection
B-CrO2	B deck Normal/CrO2 detection
A-PLAY	A deck PLAY-SW
B-PLAY	B deck PLAY-SW
FREC	Forward REC detection
RREC	Reverse REC detection
TEST	PCB TEST mode
DSW3	Decided model(D)
DSW4	
DSW5	
DSW0	Decided tuner destination(D)
DSW1	
DSW2	
$\overline{\text{ST}}$	PLL stereo input
$\overline{\text{SD}}$	Station detector input

RXD-G3/G4/G5/G31/G51

CIRCUIT DESCRIPTION

RXD-G3/G4/G5/G31/G51 KEY MATRIX (UNIT)

	KR0	KR1	KR2	KR3
SEG 1	DISC 1	DISC 2	DISC 3	TAPE
SEG 2	OPEN/CLOSE	DISC SKIP	BAND	CD
SEG 8	MD	DEMO	MODE/OTT /ENHANCE	▶▶
SEG 9	◀◀	▶▶|	|◀◀	■
SEG 10	KEY ①	E Q	N B	LLC
SEG 11	KEY ②	KEY ③	ENTER	KEY ④
SEG 12	DOLBY N R	REV MODE	A/B	POWER
SEG 13	KEY ⑤	REC/ARM	DUBBING	OTE

	KEY ①	KEY ②	KEY ③	KEY ④	KEY ⑤
RXD-G3	ENHANCE	– – –	– – –	– – –	BEST HITS
RXD-G31 (J.M)	ENHANCE	– – –	– – –	– – –	DIGITAL ECHO
RXD-G4 (K.E)	3D STEREO	– – –	– – –	– – –	BEST HITS
RXD-G5	3D STEREO	DOLBY 3 STEREO	DOLBY PRO LOGIC	OFF	BEST HITS
RXD-G51 (J.M)	3D STEREO	– – –	– – –	– – –	DIGITAL ECHO

TUNER

	KR0	KR1	KR2	KR3
SEG5	SD	ST		

DECK

	KR0	KR1	KR2	KR3
SEG6	A PACK	B PACK	A PLAY	A CrO2
SEG7	R REC	B CrO2	B PLAY	F REC

DIODE SW

	KR0	KR1	KR2	KR3
SEG3	TEST DECK PCB	DSW2	DSW1	DSW0
SEG4	DSW5	DSW4	DSW3	TEST RDS

DIODE SWITCH TABLE

(1) TUNER DESTINATION SELECT

	DSW2	DSW1	DSW0
K1 (K, P, R)	L	L	L
K2 (K, P, R)	L	L	H
J (J)	L	H	L
E1 (E, G, X)	L	H	H
E2 (T)	H	L	L
E1 (RDS)	H	L	H
E2 (RDS)	H	H	L
M (M,Y)	L	CH SP	H

M TYPE : SELECT DESTINATION BY CH SP (CHANNEL SPACE SW)
L : K2 H : E1

(2) MODEL SELECT

	DSW5	DSW4	DSW3
RXD-G3	L	L	L
RXD-G31	L	L	H
RXD-G4	L	H	L
RXD-G5	L	H	H
RXD-G51	H	L	H

1-7. Initialization (Reset)

Insert the AC plug into the outlet while holding down the ENTER key of main unit.

Initial stage

	State	
SYSTEM	POWER	OFF
CLOCK PROG.	CLOCK	STOP(AM12:00)
	PROG. Operation MODE	OFF
	PROG.1 : ON=AM12:00	OFF=AM12:00
	MOD=PLAY	SOC=TUNER(1ch)
	PROG.2 : ON=AM12:00	OFF=AM12:00
	MOD=PLAY	SOC=TUNER(1ch)
AMP	VOLUME	7SEG=7
	SELECTOR	TUNER
	EQ.	OFF
	PRESENCE	OFF
	3D STEREO	OFF
	N. B.	OFF
	MUTING	OFF
	PROLOGIC	OFF

	State	
TUNER	BAND	FM
	Each last BAND	
	FM : P.ch= - - ch	FREQ=min(76.0 or 87.5 MHz)
	AM(MW) : P.ch= - - ch	FREQ=min(530 or 531 kHZ)
	LW : P.ch= - - ch	FREQ=min(153kHz)
	P.CH Memory 1 ch~20ch : Test frequency	(Refer to Test Frequency)
	Tuning MODE	AUTO (AUTO STEREO)
TAPE	A/B Selector	B
	A Deck Head position	For FWD
	B Deck Head position	For FWD
	DOLBY NR	OFF
	REV	REVERSE
CD	DISC Selector	DISC 1
	REPEAT	OFF

2 TEST MODE

2-1. Cassette Deck TEST MODE

TEST Mode	Operation	Description
Input method	While depressing the TAPE key, plug the power cord in to an AC power outlet.	Entered TEST mode.
Cancel method	Turn off the power.	Cancelled TEST mode.
4 sec. REC	REC	Insert the cassette tape of B deck, select AUX, the deck start REC position. On the REC mute off, started 4 sec REC. After return REC Starting position,select TAPE, started PLAY position.
Direct PLAY	FWD key RVS key(Insert the tape in the A or B deck)	FWD key : Moved FWD PLAY to select A or B RVS key : Moved REV PLAY to select A or B.
Select deck (A/B)	A or B	Select deck A or B without cassette tape.

2-2. DETECT HALF SW (ON TEST MODE)

SW	DISPLAY
A CrO2 detect half sw	A
B CrO2 detect half sw	A
B FWD REC inhibit detect half sw	B
B RVS REC inhibit detect half sw	B

2-3. AMP GE TUNER TEST MODE

1. How to turn it ON
   If you turn ON the power while pressing the AUX key or the TUNER key, it will go into the AMP/GE/TUNER test mode.
2. Operation immediately after the start-up of the test mode
   The test mode gets started while the power is turned ON. If the AUX key is pressed, the selector will be turned to "AUX." If the TUNER key is pressed, it will be turned to "TUNER. All the FLs will light up. The red and green lamps of the two-color LEDS will light up by turns at 500 msec. interval. All the single-color LEDS will light up. The indication with all the LEDs' lighting up can be released by operating the key on the remote control or on the main body Then, it will be returned to the ordinary "AUX" display then to the ordinary display.
3. Operation in the test mode

(1) MUTE control is not activated when the mode is switched.
(2) The test mode will not be terminated if it is shifted to other positions than "AUX.
(3) The test mode will be terminated by plugging it off the power source or by initializing it, when all the settings will be initialized.
(4) During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the remote control or the main body, specifically as shown in the following table.

Key	Function	Key	Function
POWER	Initialization	3D STEREO	Normal operation
CD	Normal operation	DOLBY PRO/flat	Normal operation
TAPE	Normal operation	DOLBY 3 ST/natural	Normal operation
TUNER	Normal operation	OFF/sharp	Normal operation
MD/AUX	Normal operation	BEST HIT/MIC ECHO	Normal operation
■	Normal operation	MODE/OTT/ENHANCER	Normal operation
⏮	Center level up	DEMO	All light off, normal display (cyclic)
⏭	Center level down		
◀◀	Rear level up	+10(Remocon key)	Selector TUNER+10 key
▶▶	Rear level down	0(Remocon key)	Selector TUNER 0 key
ENTER.	S level display	1(Remocon key)	Selector TUNER 1 key
LLC	S level display cancellation	2(Remocon key)	Selector TUNER 2 key
PRESENCE	Normal operation	3(Remocon key)	Selector TUNER 3 key
N. B.	Normal operation	4(Remocon key)	Selector TUNER 4 key
EQ. ON/OFF	Normal operation	5(Remocon key)	Selector TUNER 5 key
DISC 1	※3D TES1(AUX only)	6(Remocon key)	Selector TUNER 6 key
DISC 2	※3D TES2(AUX only)	7(Remocon key)	Selector TUNER 7 key
DISC 3	※3D TES3(AUX only)	8(Remocon key)	Selector TUNER 8 key
OPEN/CLOSE	※3D TES4(AUX only)	9(Remocon key)	Selector TUNER 9 key
※DISK SKIP	※Equalizer FLAT (OFF)		
A/B(A)	※Encoder MID(CE)		
REV.MOD(Unit)	※Encoder MIN(L)		
DOLBY NR B(Unit)	Equalizer MIN		
DUBBING (Unit)	Equalizer MAX		
REC/ARM(REC)	HIT MASTER ON		
ONE TOUCH EDIT	※Encoder MAX(R)		

※ The DISK SKIP key is used for "Equalizer FLAT" and "OFF function" (to turn OFF "PRESENCE" and "HIT MASTER").
※ The remote control/main body keys that are not listed above will work as usual.
※ Setting of 3D. (AUX mode only)
※ Setting of S level display and S level cancellation. (TUNER mode only)

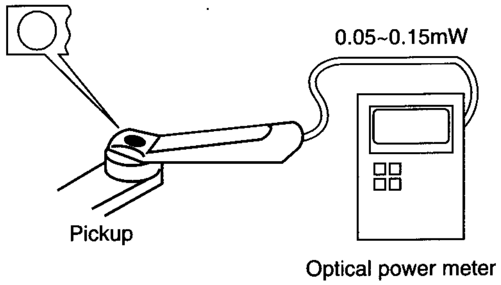
ADJUSTMENT

CD section (X32-312)

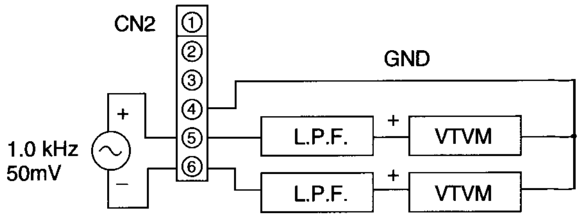
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	LASER POWER	-	Set the senor section of the optical power meter on the pickup lens.	Press CD key and turn the power on to enter the test mode.Press the"DISC3"key to check that the display is "03".	-	On the power from.0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF (CN2-1) CH2 : TE (CN2-6)	Load disc and set to test mode.Confirm the display is"03".	TE BALANCE VR1	Symmetry between upper and lower or DC=0±25mV	
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF(CN2-1) CH2 : TE(CN2-6)	Press the PLAY key. Confirm that the display is"05"	FE BALANCE VR2	Optimum eye pattern	
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 50mVrms to CN2 pin 5-6.	Connect a LPF to CN2 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the displays"05"	TRACKING GAIN VR3	Two VTVMs should read the same value.	(e)

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390pF or so.
Step 1 ~ 5 are in Test Mode.

(a) Laser Power



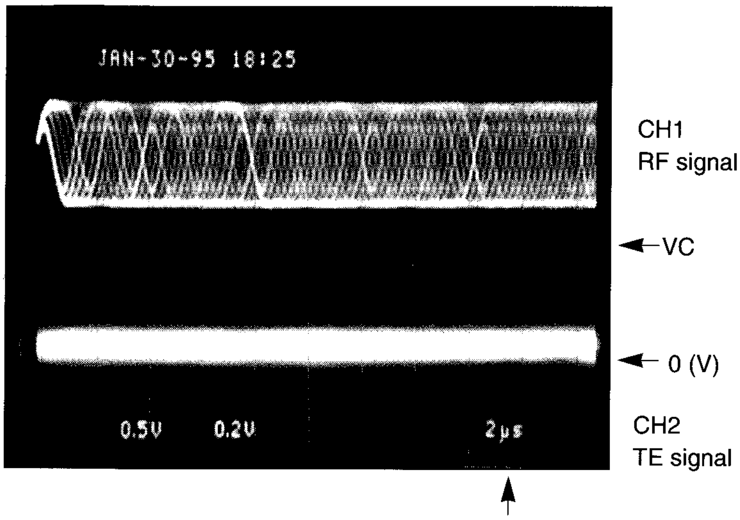
(e) Tracking Gain Adj.



CD test mode input method : While depressing the CD key,
plug the power cord into an AC power outlet.

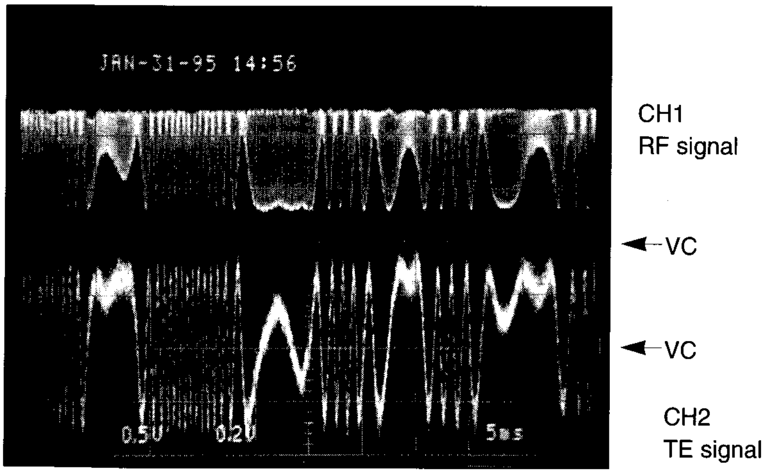
NO.	KEY	OPERATION	TRACK NO. DISPLAY
1	CD	CLAMP DISC3 1. FOCUS SERVO ....ON 2. TRACKING SERVO ....ON 3. FEED SERVO ....ON	05
2	DISC3	1.FOCUS SERVO ....ON 2. TRACKING SERVO ....OFF 3. FEED SERVO ....OFF	03
3	STOP	STOP	01
4	DISC1	PLAY T NO.16 (P NO 2)	16
5	DOWN	STOP D NO2, AND PLAY T NO32 OF D NO1.	32
6	DISC2	CLAMP UP D NO3, AND LOCK FLICKTION ARM	— —

FIG. (b)



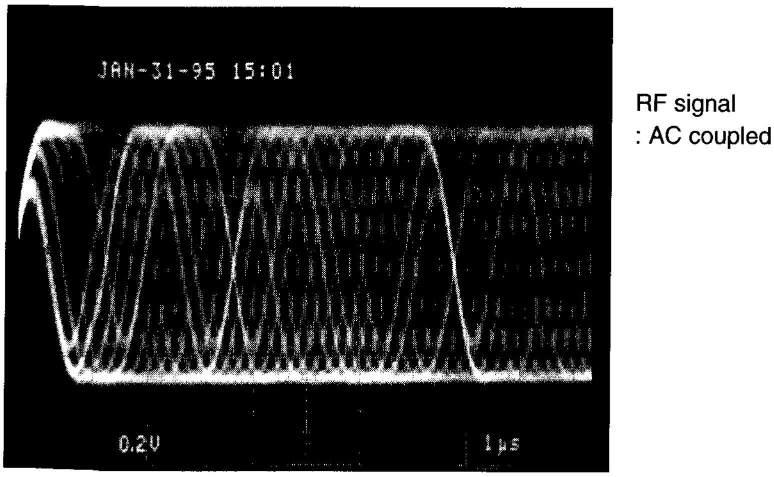
- RF signal and TE signal in test mode (PLAY).

FIG. (c)



- RF signal and TE signal in test mode (Focusing servo ON / Tracking servo OFF). (Disc Type 4)
- Adjust TE signal so that the waveform is symmetrical in relation to VC. VR 3 (TE BALANCE)

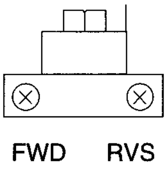
FIG. (d)



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

ADJUSTMENT

Cassette Deck section

No	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: 0dBs=0.775V TAPE : NORMAL DOLBY : OFF REC OUT : Lch (X28,CN5 ①pin), Rch (X28,CN5 ④pin) I. Cassette mechanism unit (Adjustment of the REC / PLAY head)							
⟨1⟩	Demagnetization and cleaning	—	—	Power : OFF Demagnetization,cleaning, PLAY	Recording head, erase head,capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser.Clean the REC / PLAY head, erase head,capstan and pinch roller using a cotton swab slightly damped with alcohol.	
⟨2⟩	Azimuth of the REC/PLAY head	TCC–153 MTT–114 10kHz, – 10dB	(B)	PLAY		Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	
II. PC BOARD ADJUSTMENT							
⟨1⟩	TAPE SPEED(NORMAL)	TCC–110 MTT–111 SCC–1727 3kHz	(B)	PLAY	VR9	Adjust the tape speed so that 3kHz is obtained at the center of the tape.	
III. PC BOARD ADJUSTMENT							
⟨1⟩	PLAYBACK LEVEL	MTT- 150 400Hz	(B)	PLAY	A DECK VR 1(L) VR 2 (R) B DECK VR 3 (L) VR4 (R)	Adjust the playback output to -2.0dBs	
		MTT-256, SCC–1727 315Hz				Adjust the playback output to -6.0dBs	
		MTT–256U, TCC–160 315Hz				Adjust the playback output to -3.0dBs	
⟨2⟩	BIAS CURRENT	Adjust the AG for the output of the DECK to become 400Hz –23dBs. 400Hz/12.5kHz	(B)	REC ↕ PLAY	RXD-G3/G31 VR5(L) VR6(R) RXD-G4/G5 /G51 VR7(L) VR8(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the +3dB.	

ADJUSTMENT

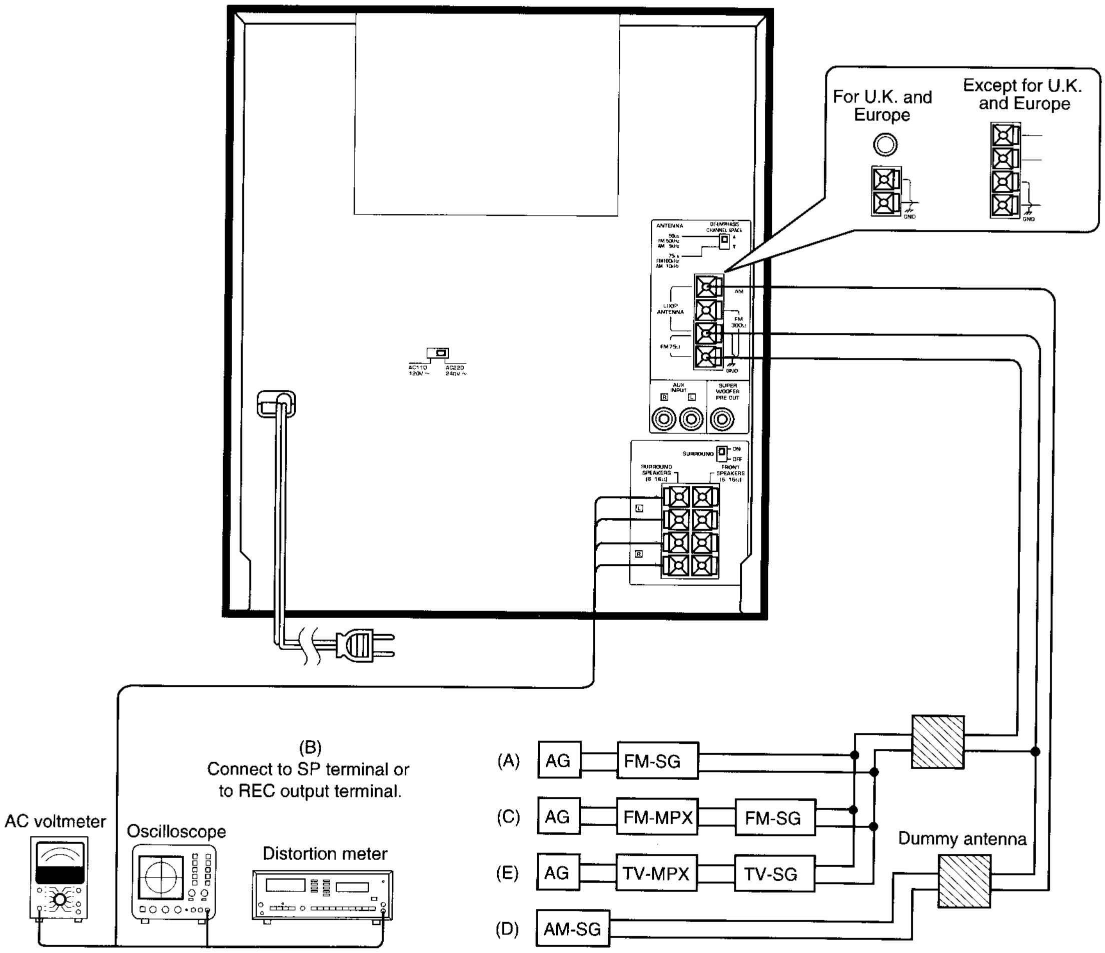
TUNER section

No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(f)

(X09-431,432,445)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75 kHz dev 60 dBμ(ANT input)	Connect a DC voltmeter between TP 1 and TP2. (X09-)	AUTO or MONO 98.0MHz	L306 (X09-)	0V	(f)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ (ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(f)

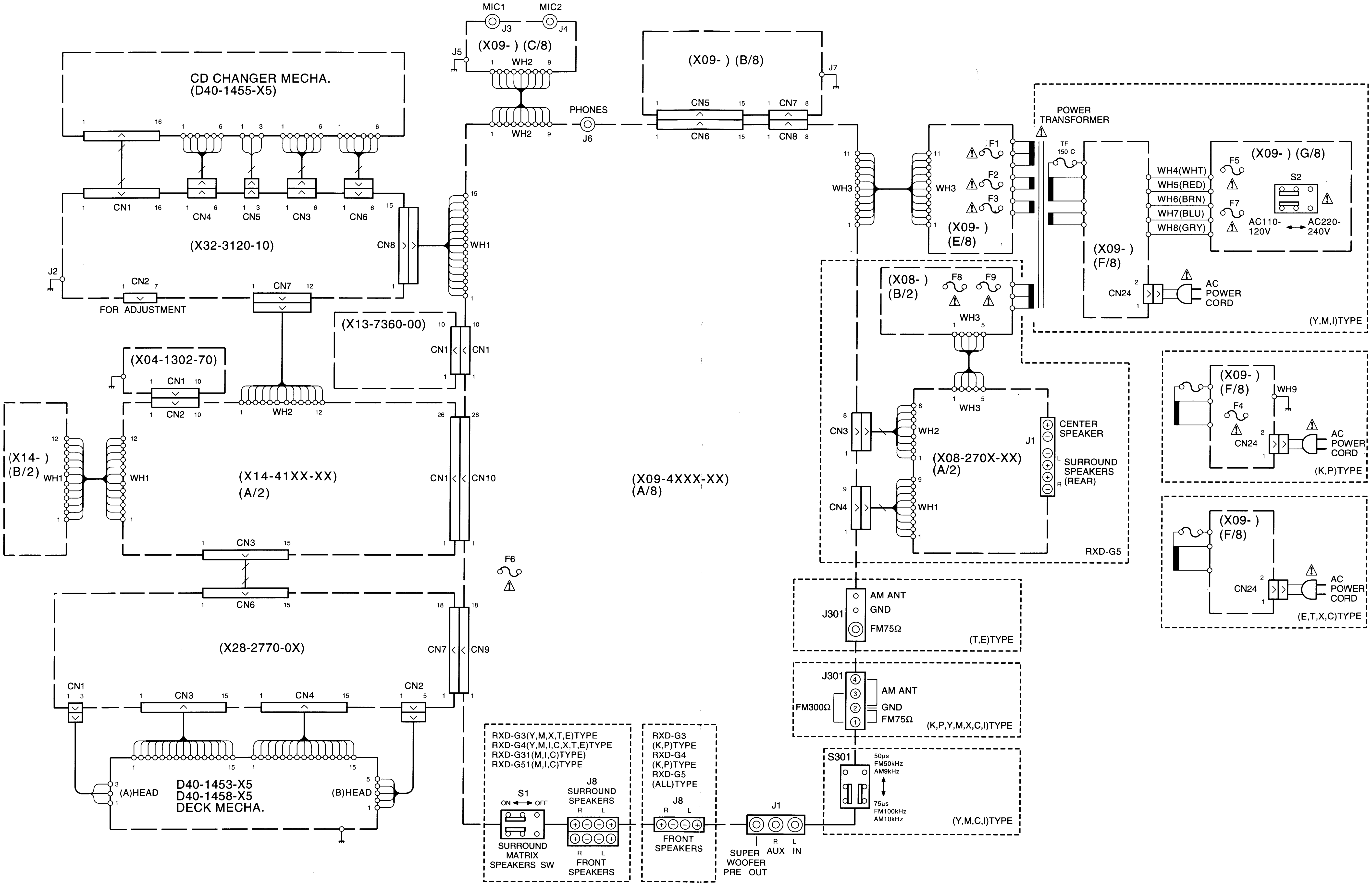
Fig.(f)


For U.K. and Europe
Except for U.K. and Europe
GND
ANTENNA
DE-EMPHASIS CHANNEL SPACE
50μs FM 50kHz AM 9kHz
75μs FM100kHz AM 10kHz
AM
LOOP ANTENNA
FM 300Ω
FM 75Ω
GND
AUX INPUT
R
L
SUPER WOOFER PRE OUT
SURROUND
ON
OFF
SURROUND SPEAKERS (6-16Ω)
FRONT SPEAKERS (6-16Ω)
L
R
AC110 120V~
AC220 240V~
(B)
Connect to SP terminal or
to REC output terminal.
AC voltmeter
Oscilloscope
Distortion meter
(A)
AG
FM-SG
(C)
AG
FM-MPX
FM-SG
(E)
AG
TV-MPX
TV-SG
(D)
AM-SG
Dummy antenna

REC output : for X28 L ch, connect CN 5 pin 1;
for X28 R ch, connect CN 5 pin 4.

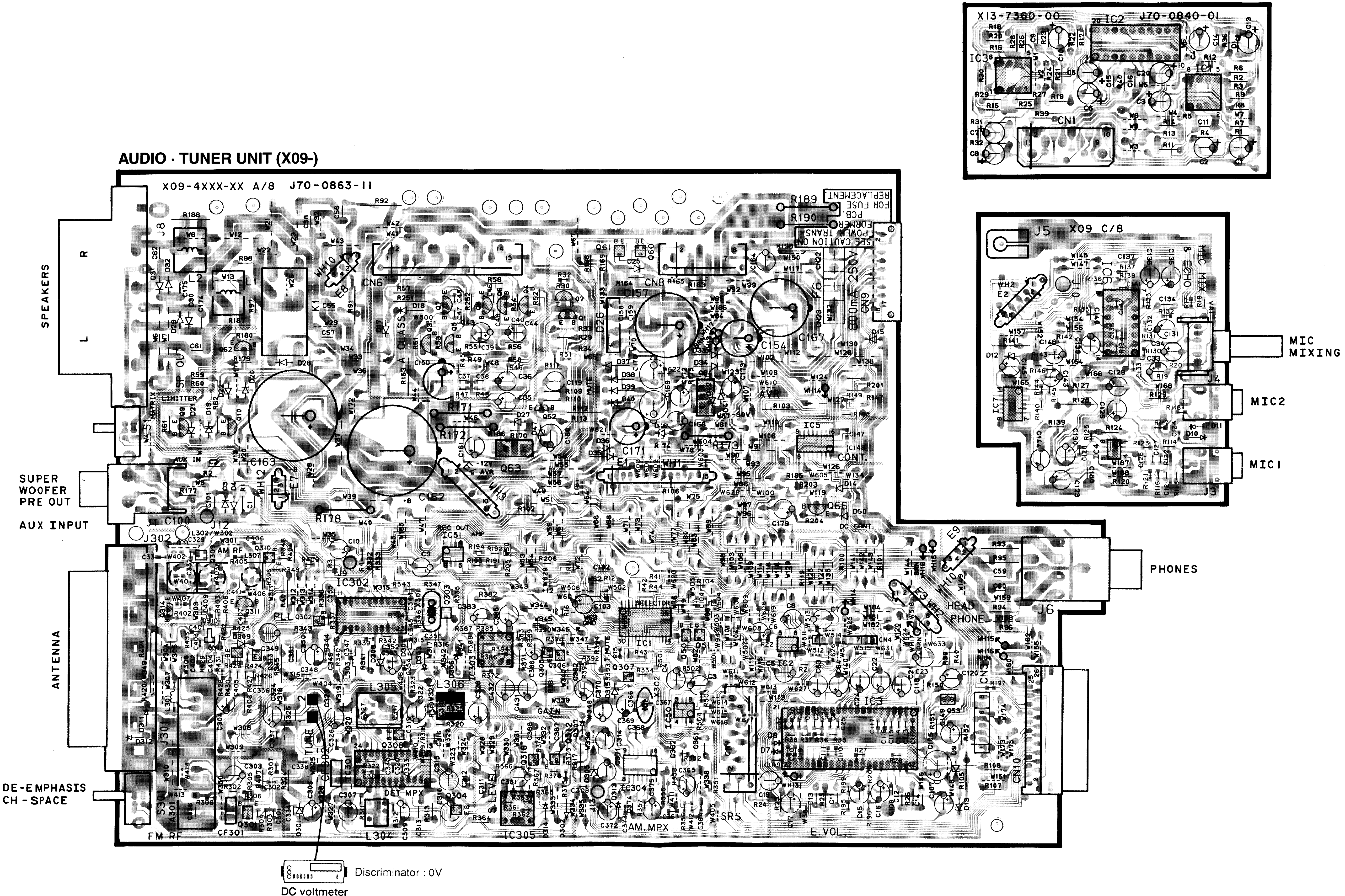
RXD-G3/G4/G5/G31/G51 RXD-G3/G4/G5/G31/G51

WIRING DIAGRAM



MIC1
MIC2
J3
J4
J5
(X09-) (C/8)
WH2
PHONES
J6
(X09-) (B/8)
J7
CN5
CN7
CN6
CN8
CD CHANGER MECHA.
(D40-1455-X5)
CN1
CN4
CN5
CN3
CN6
(X32-3120-10)
CN8
WH1
J2
CN2
CN7
FOR ADJUSTMENT
(X13-7360-00)
CN1
CN1
(X04-1302-70)
CN1
CN2
WH2
(X14-)
(B/2)
WH1
WH1
(X14-41XX-XX)
(A/2)
CN1
CN10
CN3
CN6
F6
(X28-2770-0X)
CN7
CN9
CN1
CN3
CN4
CN2
(A)HEAD
D40-1453-X5
D40-1458-X5
DECK MECHA.
(B)HEAD
(X09-4XXX-XX)
(A/8)
POWER
TRANSFORMER
TF
150 C
WH3
WH3
F1
F2
F3
(X09-)
(E/8)
WH4(WHT)
WH5(RED)
WH6(BRN)
WH7(BLU)
WH8(GRY)
(X09-) (G/8)
F5
F7
S2
AC110-120V
AC220-240V
(X09-)
(F/8)
CN24
AC
POWER
CORD
(Y,M,I)TYPE
(X08-)
(B/2)
F8
F9
WH3
WH3
CN3
WH2
(X08-270X-XX)
(A/2)
J1
CENTER
SPEAKER
SURROUND
SPEAKERS
(REAR)
CN4
WH1
RXD-G5
(X09-)
(F/8)
WH9
F4
CN24
AC
POWER
CORD
(K,P)TYPE
(X09-)
(F/8)
CN24
AC
POWER
CORD
(E,T,X,C)TYPE
J301
AM ANT
GND
FM75Ω
(T,E)TYPE
J301
AM ANT
FM300Ω
GND
FM75Ω
(K,P,Y,M,X,C,I)TYPE
S301
50µs
FM50kHz
AM9kHz
75µs
FM100kHz
AM10kHz
(Y,M,C,I)TYPE
RXD-G3(Y,M,X,T,E)TYPE
RXD-G4(Y,M,I,C,X,T,E)TYPE
RXD-G31(M,I,C)TYPE)
RXD-G51(M,I,C)TYPE
S1
ON OFF
SURROUND
MATRIX
SPEAKERS SW
J8
SURROUND
SPEAKERS
R L
FRONT
SPEAKERS
RXD-G3
(K,P)TYPE
RXD-G4
(K,P)TYPE
RXD-G5
(ALL)TYPE
J8
R L
FRONT
SPEAKERS
J1
SUPER
WOOFER
PRE OUT
R L
AUX IN

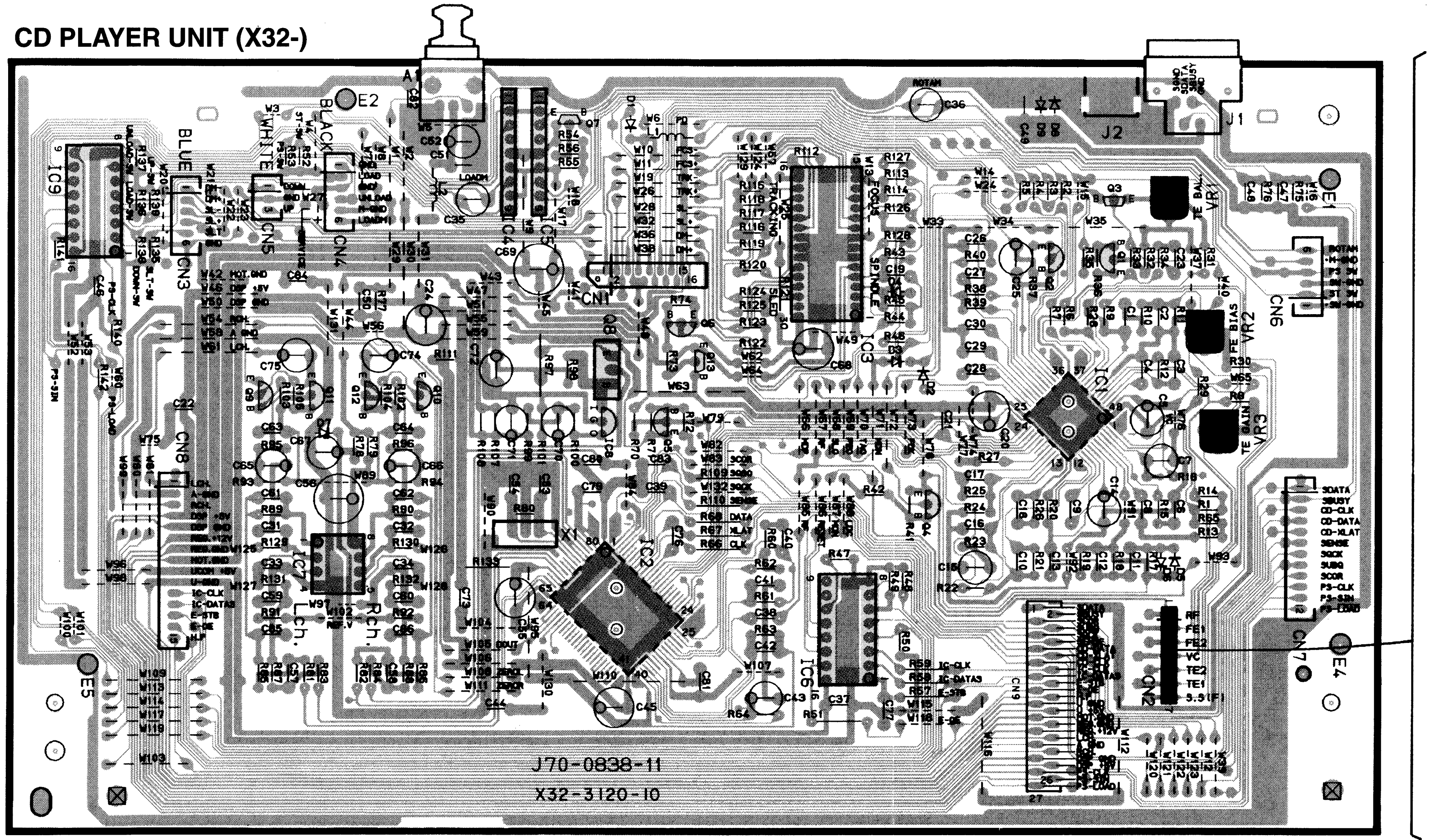
PC BOARD (Component side view)


AUDIO · TUNER UNIT (X09-)
X13-7360-00
J70-0840-01
X09-4XXX-XX A/8 J70-0863-11
X09 C/8
SPEAKERS
R
L
SUPER WOOFER PRE OUT
AUX INPUT
ANTENNA
DE-EMPHASIS CH-SPACE
MIC MIXING
MIC2
MIC1
PHONES
HEAD PHONE
FOR FUSE REPLACEMENT
SEE CAUTION ON POWER TRANS. FORMER P.C.B.
800mA 250V
Discriminator : 0V
DC voltmeter

Refer to the schematic diagram for the values of resistors and capacitors.

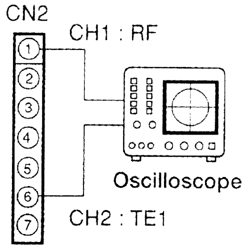
PC BOARD (Component side view)

CD PLAYER UNIT (X32-)

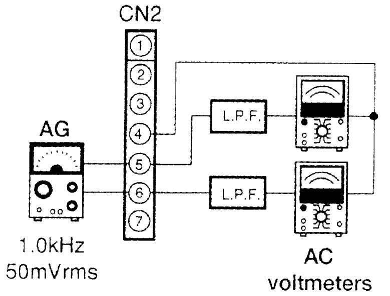

J70-0838-11
X32-3120-10
IC1
IC2
IC3
IC6
IC7
IC9
CN1
CN2
CN3
CN5
CN6
CN7
CN8
J1
J2
VR1
VR2
VR3
TE BAL
FE BIAS
TE GAIN
BLUE
WHITE
BLACK
E1
E2
E4
E5
X1
Lch.
Rch.

Tracking error balance
: Symmetry between upper and lower for VC (±25mV)

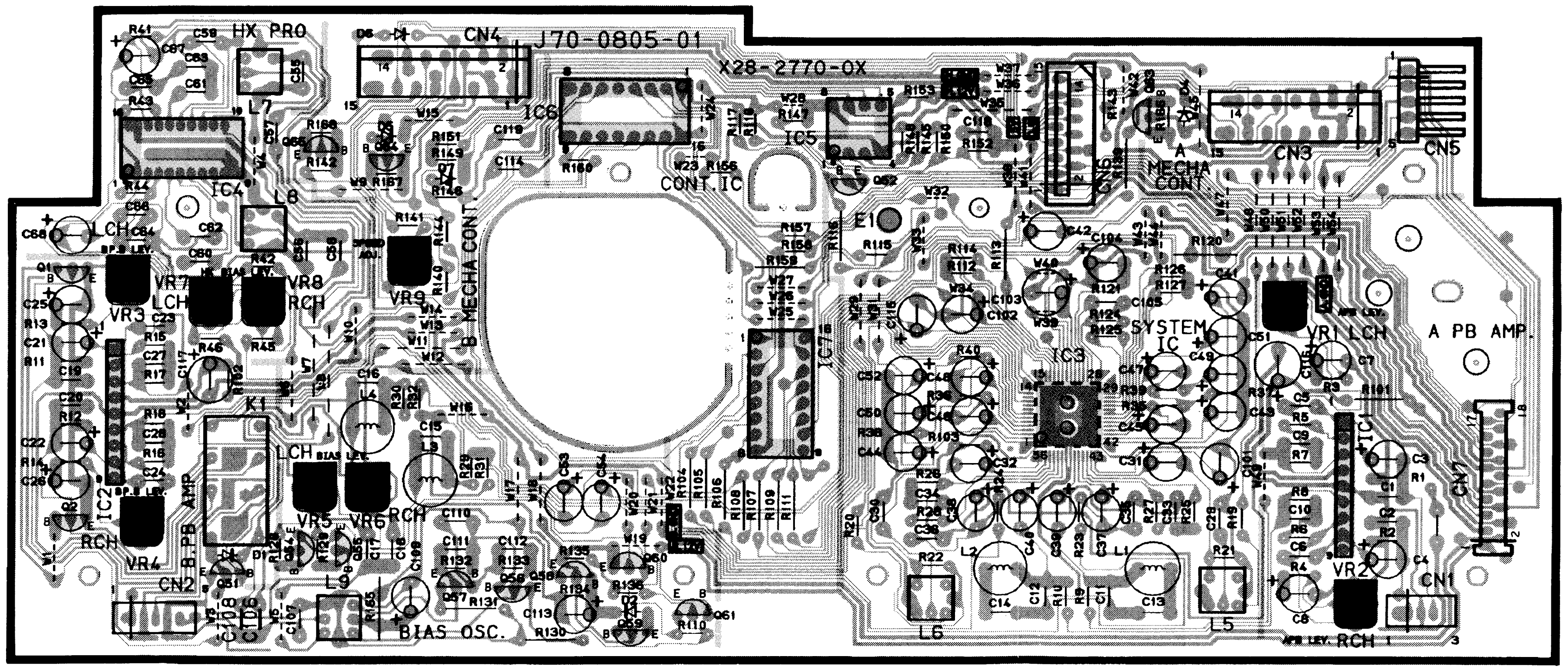
Focus error balance
: Optimum eye pattern


CN2
CH1 : RF
Oscilloscope
CH2 : TE1
1
2
3
4
5
6
7

Tracking gain :
Two VTVMs should read the same value.

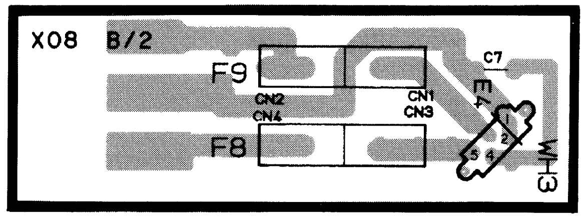

CN2
AG
L.P.F.
L.P.F.
1.0kHz
50mVrms
AC
voltmeters
1
2
3
4
5
6
7

RECORD/PLAY BACK UNIT (X28-)

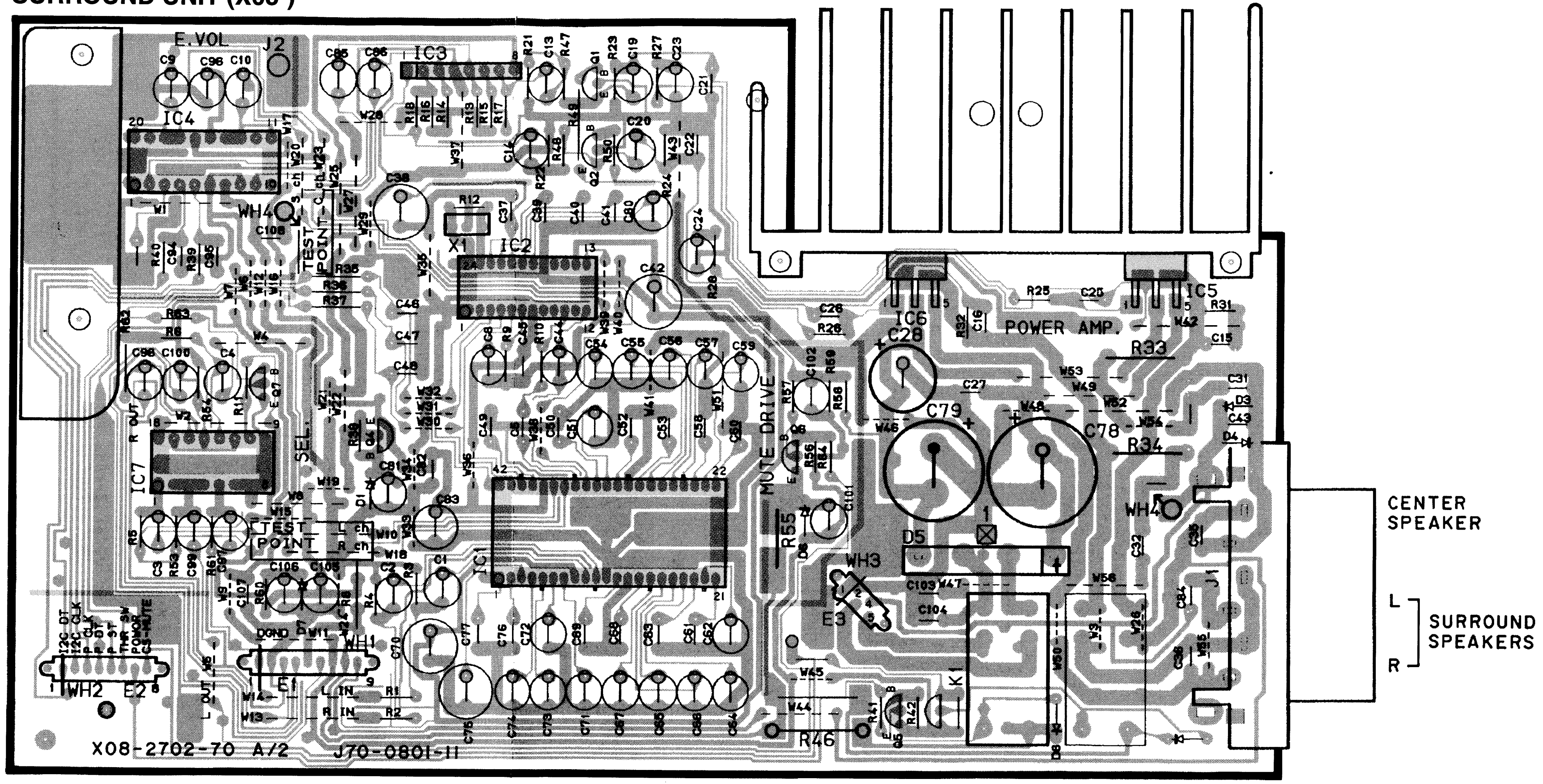

J70-0805-01
X28-2770-0X
HX PRO
CN1
CN2
CN3
CN4
CN5
CN7
IC1
IC2
IC3
IC4
IC5
IC6
IC18
CONT. IC
MECHA CONT
A MECHA CONT.
SYSTEM IC
A PB AMP.
B PB AMP
VR1 LCH
VR2 RCH
VR3
VR4
VR5
VR6 RCH
VR7 LCH
VR8 RCH
VR9
BIAS OSC.
LCH
RCH
L5
L6
L7
L8
L9
K1
E1

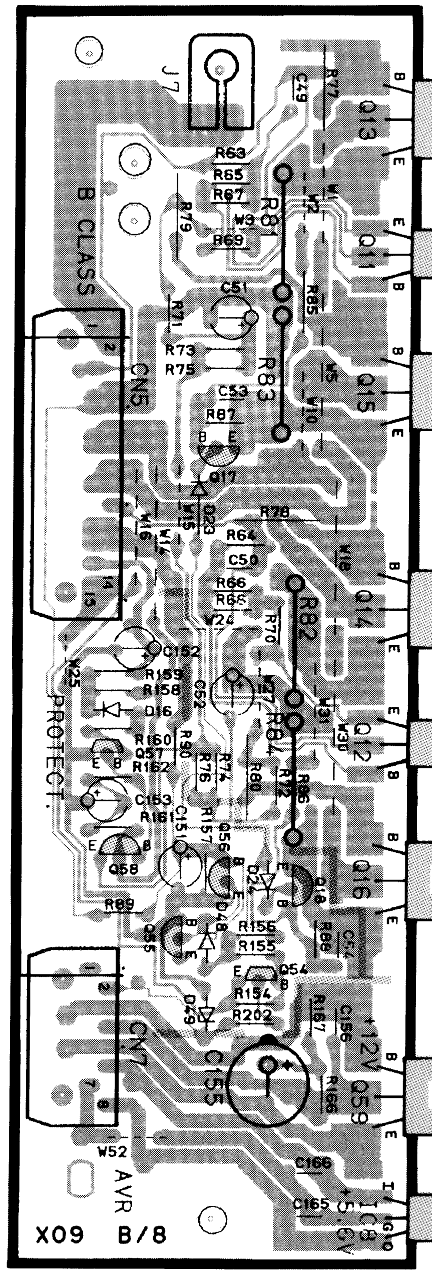
Refer to the schematic diagram for the values of resistors and capacitors.

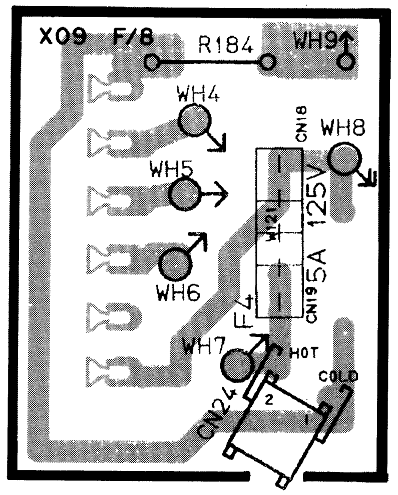
PC BOARD (Component side view)

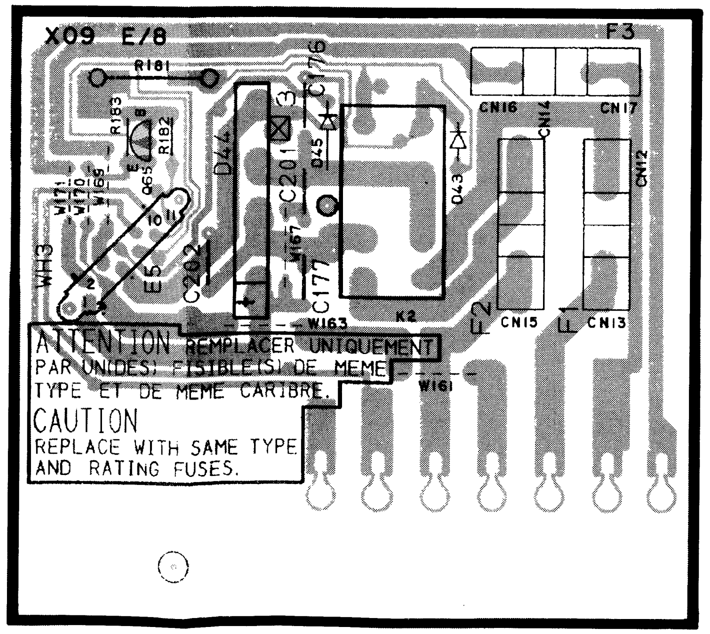

X08 B/2
F9
F8
CN2
CN4
CN1
CN3
C7
E4
WH3

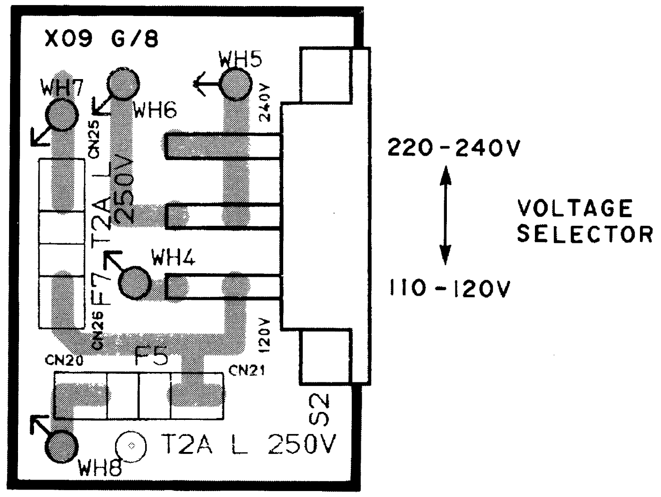
SURROUND UNIT (X08-)


E.VOL
J2
IC3
IC4
IC2
IC1
IC5
IC6
IC7
X1
WH4
TEST POINT
POWER AMP.
C79
C78
C28
R33
R34
R46
R55
D5
WH3
E3
K1
MUTE DRIVE
SEL
WH2
E2
E1
WH1
L IN
R IN
L OUT
R OUT
X08-2702-70 A/2
J70-0801-11
CENTER SPEAKER
L
R
SURROUND SPEAKERS


J7
B CLASS
CN5
Q13
Q11
Q15
Q14
Q12
Q16
Q59
R81
R83
R82
R84
PROTECT.
CN7
C155
+12V
AVR
IC8
X09 B/8


X09 F/8
R184
WH9
WH4
WH8
WH5
WH6
WH7
CN18
CN19
5A 125V
F4
HOT
COLD
CN24


X09 E/8
F3
R181
R182
C176
C201
D44
D45
D43
C202
C177
E5
WH3
CN16
CN17
CN14
CN12
CN15
CN13
F2
F1
K2
ATTENTION REMPLACER UNIQUEMENT PAR UNIDES FUSIBLE(S) DE MEME TYPE ET DE MEME CARIBRE.
CAUTION
REPLACE WITH SAME TYPE AND RATING FUSES.

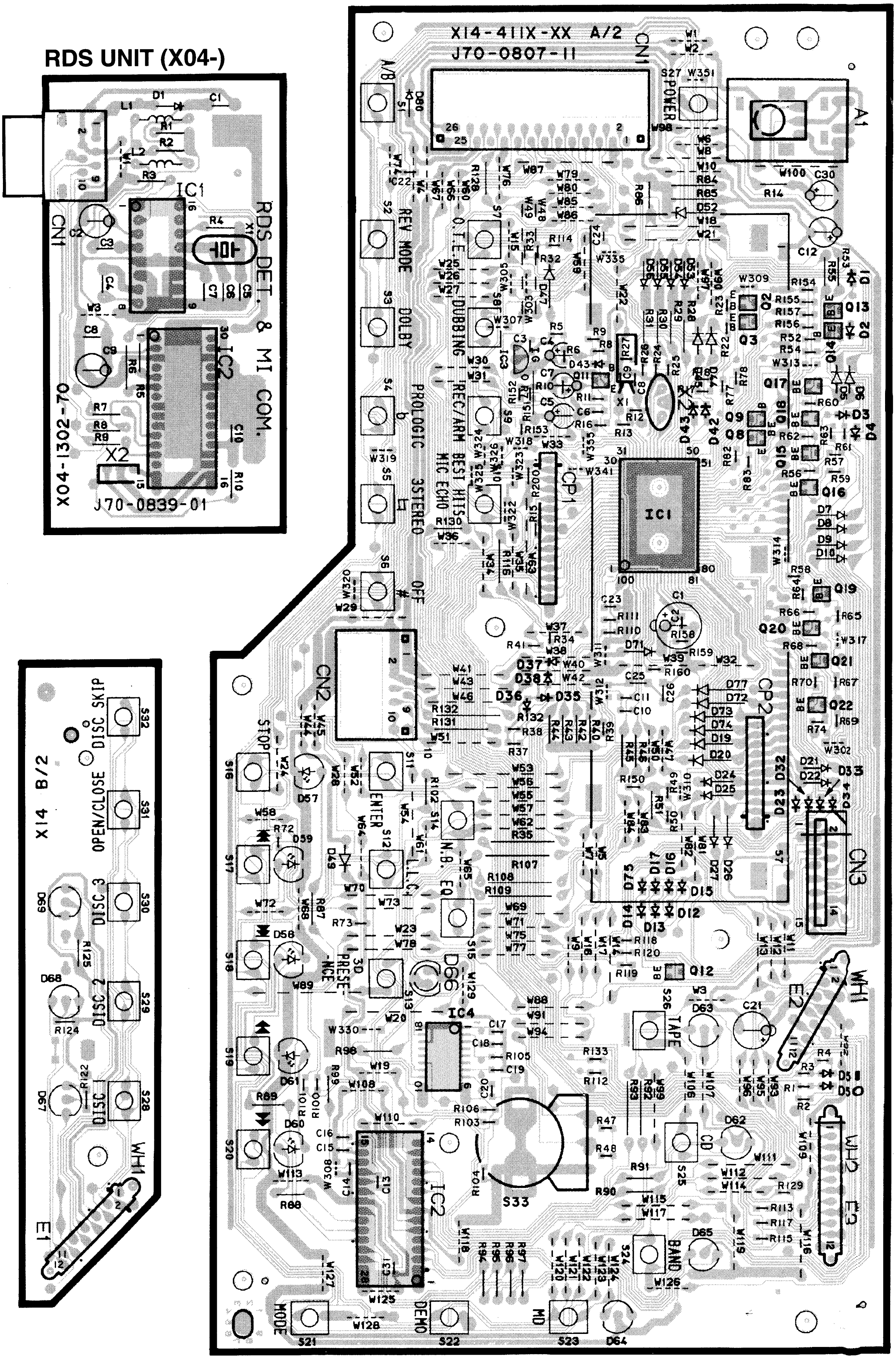

X09 G/8
WH7
WH5
WH6
WH4
WH8
CN25
CN26
F7
T2A L 250V
F5
CN20
CN21
240V
120V
S2
T2A L 250V
220-240V
VOLTAGE SELECTOR
110-120V

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

DISPLAY UNIT (X14-)

RDS UNIT (X04-)


X14-411X-XX A/2
J70-0807-11
CN1
S27
POWER
A1
A/B
S1
S2
REV MODE
S3
DOLBY
S4
PROLOGIC
S5
3STEREO
S6
OFF
S7
O.T.E.
S8
DUBBING
S9
REC/ARM
S10
BEST HITS
MIC ECHO
IC1
CP1
CP2
CN2
STOP
S11
ENTER
S12
L.L.C.
S14
N.B.
EQ
3D PRESENCE
S26
TAPE
S25
CD
S24
BAND
IC4
IC2
S33
S21
MODE
S22
DEMO
S23
MD
D64
CN3
WH1
WH2
E2
E3
RDS DET. & MI COM.
X04-1302-70
J70-0839-01
CN1
IC1
IC2
X1
X2
X14 B/2
S32
DISC SKIP
S31
OPEN/CLOSE
S30
DISC 3
S29
DISC 2
S28
DISC 1
WH1
E1

Refer to the schematic diagram for the values of resistors and capacitors.

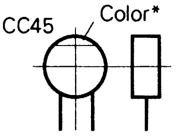
RXD-G3/G4/G5/G31/G51

PARTS DESCRIPTIONS

CAPACITORS

CC	45	TH	1H	220	J
1	2	3	4	5	6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
0 — Multiplier
2 — 2nd number
2 — 1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	−150	−220	−330	−470	−750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = −470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 −20	+80 −20	+100 −0	More than 10μF − 10 ~ +50 Less than 4.7μF −10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	−
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	−
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	−

• Chip capacitors

(EX)	C C	7 3	F	S L	1 H	0 0 0	J
	1	2	3	4	5	6	7

(Chip) (CH, RH, UJ, SL)

(EX)	C K	7 3	F	F	1 H	0 0 0	Z
	1	2	3	4	5	6	7

(Chip) (B, F)

Refer to the table above.

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

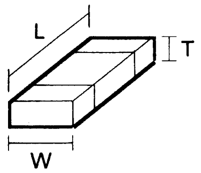
RESISTORS

• Chip resistor (Carbon)

(EX)	R K	7 3	E	B	2 B	0 0 0	J
	1	2	3	4	5	6	7

(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX)	R D	1 4	B	B	2 C	0 0 0	J
	1	2	3	4	5	6	7

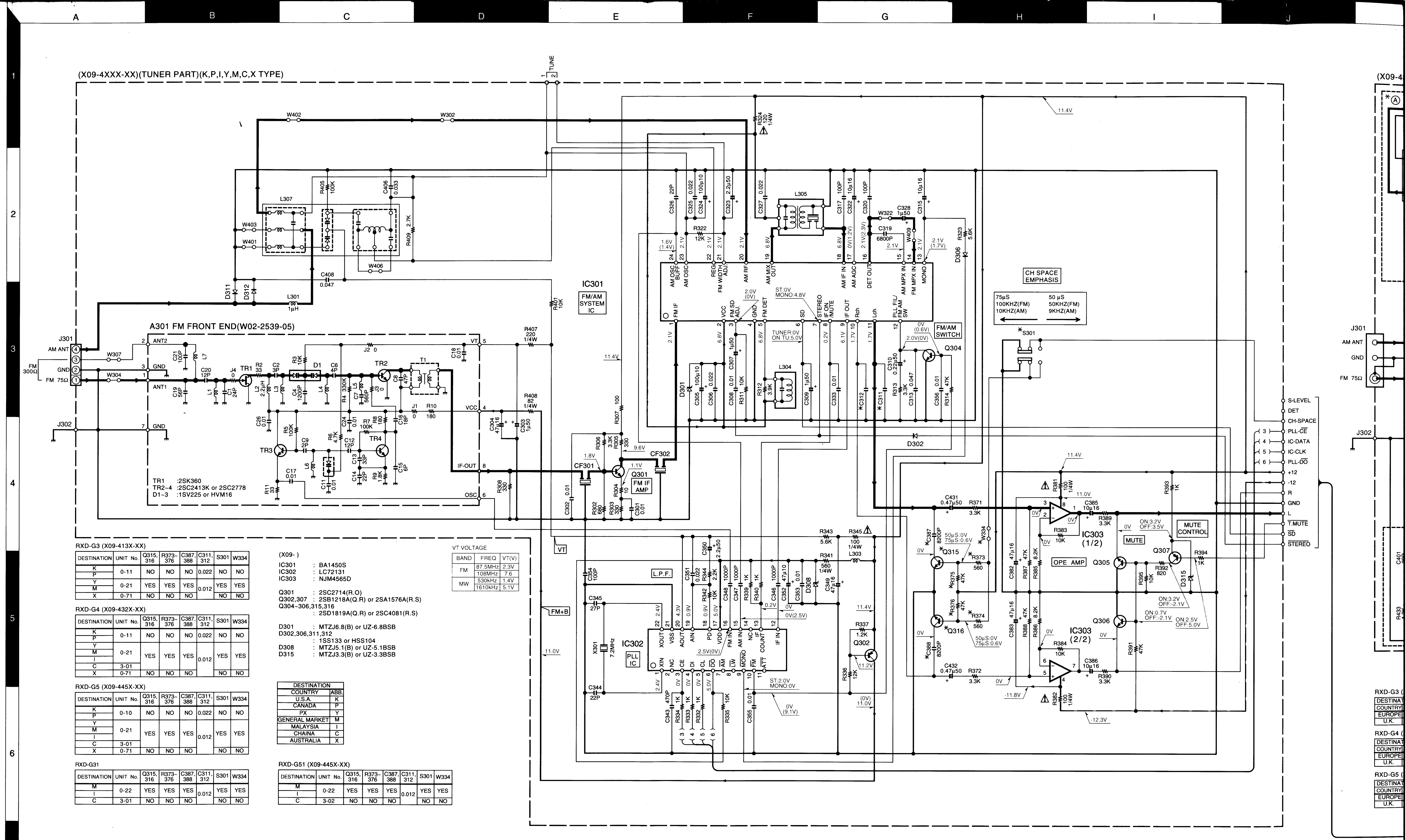
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
(X09-4XXX-XX)(TUNER PART)(K,P,I,Y,M,C,X TYPE)
TUNE
A301 FM FRONT END(W02-2539-05)
IC301
FM/AM SYSTEM IC
IC302
PLL IC
L.P.F.
IC303 (1/2)
IC303 (2/2)
OPE AMP
MUTE
MUTE CONTROL
FM IF AMP
FM/AM SWITCH
CH SPACE EMPHASIS
75μS 100KHZ(FM) 10KHZ(AM)
50 μS 50KHZ(FM) 9KHZ(AM)
TR1 :2SK360
TR2~4 :2SC2413K or 2SC2778
D1~3 :1SV225 or HVM16
J301
AM ANT
GND
FM 75Ω
FM 300Ω
J302
S-LEVEL
DET
CH-SPACE
PLL-CE
IC-DATA
IC-CLK
PLL-DO
+12
-12
R
GND
L
T.MUTE
SD
STEREO
VT
FM+B
(X09-4

RXD-G3 (X09-413X-XX)

DESTINATION	UNIT No.	Q315, 316	R373~376	C387, 388	C311, 312	S301	W334
K P	0-11	NO	NO	NO	0.022	NO	NO
Y M	0-21	YES	YES	YES	0.012	YES	YES
X	0-71	NO	NO	NO		NO	NO

RXD-G4 (X09-432X-XX)

DESTINATION	UNIT No.	Q315, 316	R373~376	C387, 388	C311, 312	S301	W334
K P	0-11	NO	NO	NO	0.022	NO	NO
Y M I	0-21	YES	YES	YES	0.012	YES	YES
C	3-01						
X	0-71	NO	NO	NO		NO	NO

RXD-G5 (X09-445X-XX)

DESTINATION	UNIT No.	Q315, 316	R373~376	C387, 388	C311, 312	S301	W334
K P	0-10	NO	NO	NO	0.022	NO	NO
Y M I	0-21	YES	YES	YES	0.012	YES	YES
C	3-01						
X	0-71	NO	NO	NO		NO	NO

RXD-G31

DESTINATION	UNIT No.	Q315, 316	R373~376	C387, 388	C311, 312	S301	W334
M I	0-22	YES	YES	YES	0.012	YES	YES
C	3-01	NO	NO	NO		NO	NO

(X09-)

IC301	: BA1450S
IC302	: LC72131
IC303	: NJM4565D
Q301	: 2SC2714(R.O)
Q302,307	: 2SB1218A(Q.R) or 2SA1576A(R.S)
Q304~306,315,316	: 2SD1819A(Q.R) or 2SC4081(R.S)
D301	: MTZJ6.8(B) or UZ-6.8BSB
D302,306,311,312	: 1SS133 or HSS104
D308	: MTZJ5.1(B) or UZ-5.1BSB
D315	: MTZJ3.3(B) or UZ-3.3BSB

VT VOLTAGE

BAND	FREQ	VT(V)
FM	87.5MHz	2.3V
	108MHz	7.6
MW	530kHz	1.4V
	1610kHz	5.1V

DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
PX	Y
GENERAL MARKET	M
MALAYSIA	I
CHAINA	C
AUSTRALIA	X

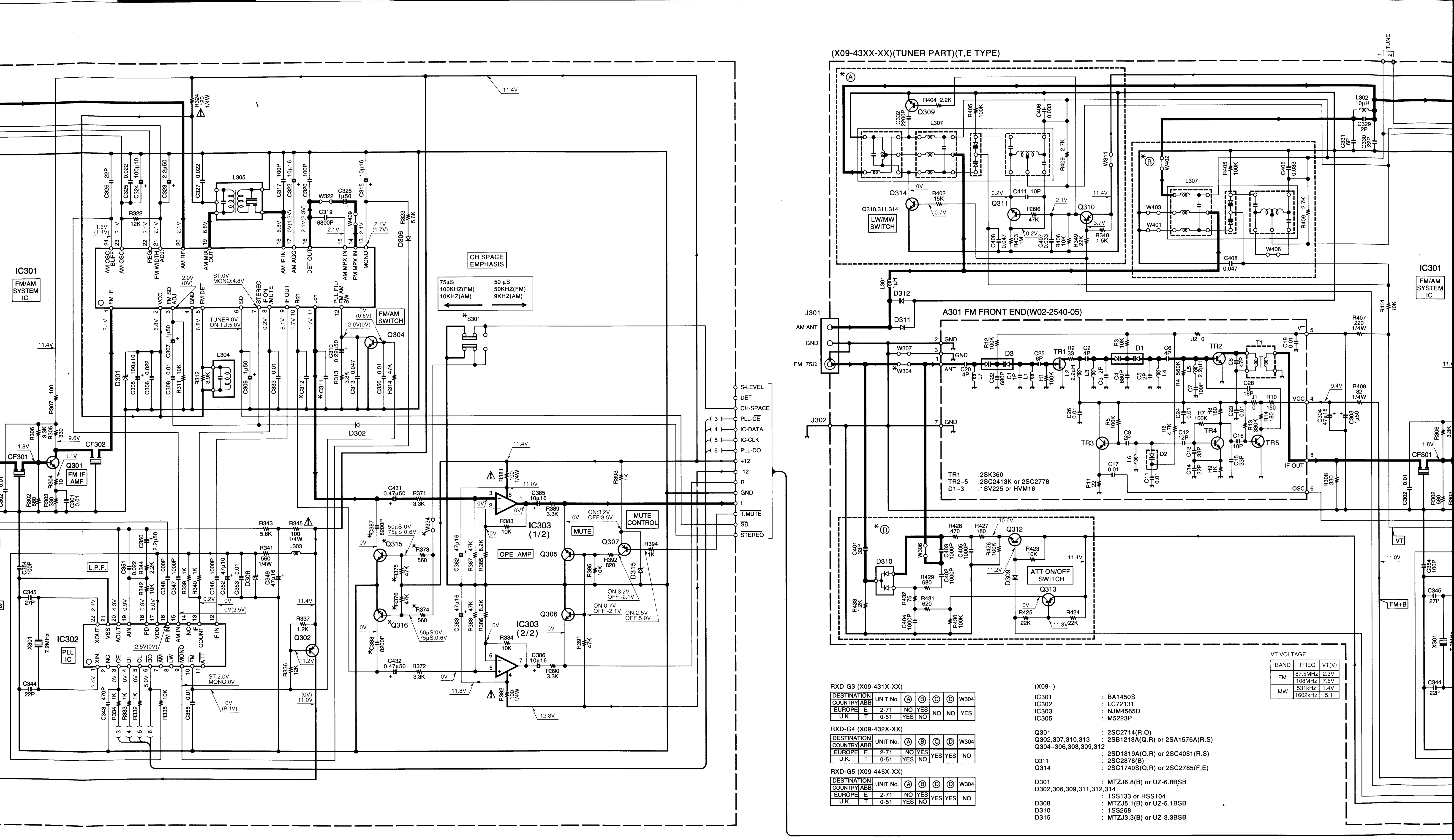
RXD-G51 (X09-445X-XX)

DESTINATION	UNIT No.	Q315, 316	R373~376	C387, 388	C311, 312	S301	W334
M I	0-22	YES	YES	YES	0.012	YES	YES
C	3-02	NO	NO	NO		NO	NO

***CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB


IC301
FM/AM SYSTEM IC
IC302
PLL IC
IC303 (1/2)
IC303 (2/2)
OPE AMP
Q301
FM IF AMP
Q302
Q304
FM/AM SWITCH
Q305
Q306
Q307
MUTE
MUTE CONTROL
Q315
Q316
CH SPACE EMPHASIS
75µS 100KHZ(FM) 10KHZ(AM)
50 µS 50KHZ(FM) 9KHZ(AM)
S301
L.P.F.
X301 7.2MHz
CF301
CF302
L304
L305
S-LEVEL
DET
CH-SPACE
PLL-CE
IC-DATA
IC-CLK
PLL-DO
+12
-12
R
GND
L
T.MUTE
SD
STEREO
(X09-43XX-XX)(TUNER PART)(T,E TYPE)
LW/MW SWITCH
Q310,311,314
Q309
Q311
Q310
Q314
L307
TUNE
J301
AM ANT
GND
FM 75Ω
J302
A301 FM FRONT END(W02-2540-05)
TR1 :2SK360
TR2~5 :2SC2413K or 2SC2778
D1~3 :1SV225 or HVM16
ATT ON/OFF SWITCH
Q312
Q313
D310
VT
FM+B
IF-OUT
OSC
VCC

RXD-G3 (X09-431X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
COUNTRY	ABB.						
EUROPE	E	2-71	NO	YES	NO	NO	YES
U.K.	T	0-51	YES	NO			

RXD-G4 (X09-432X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
COUNTRY	ABB.						
EUROPE	E	2-71	NO	YES	YES	YES	NO
U.K.	T	0-51	YES	NO			

RXD-G5 (X09-445X-XX)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
COUNTRY	ABB.						
EUROPE	E	2-71	NO	YES	YES	YES	NO
U.K.	T	0-51	YES	NO			

(X09-)

IC301	: BA1450S
IC302	: LC72131
IC303	: NJM4565D
IC305	: M5223P
Q301	: 2SC2714(R.O)
Q302,307,310,313	: 2SB1218A(Q.R) or 2SA1576A(R.S)
Q304~306,308,309,312	: 2SD1819A(Q.R) or 2SC4081(R.S)
Q311	: 2SC2878(B)
Q314	: 2SC1740S(Q,R) or 2SC2785(F,E)
D301	: MTZJ6.8(B) or UZ-6.8BSB
D302,306,309,311,312,314	: 1SS133 or HSS104
D308	: MTZJ5.1(B) or UZ-5.1BSB
D310	: 1SS268
D315	: MTZJ3.3(B) or UZ-3.3BSB

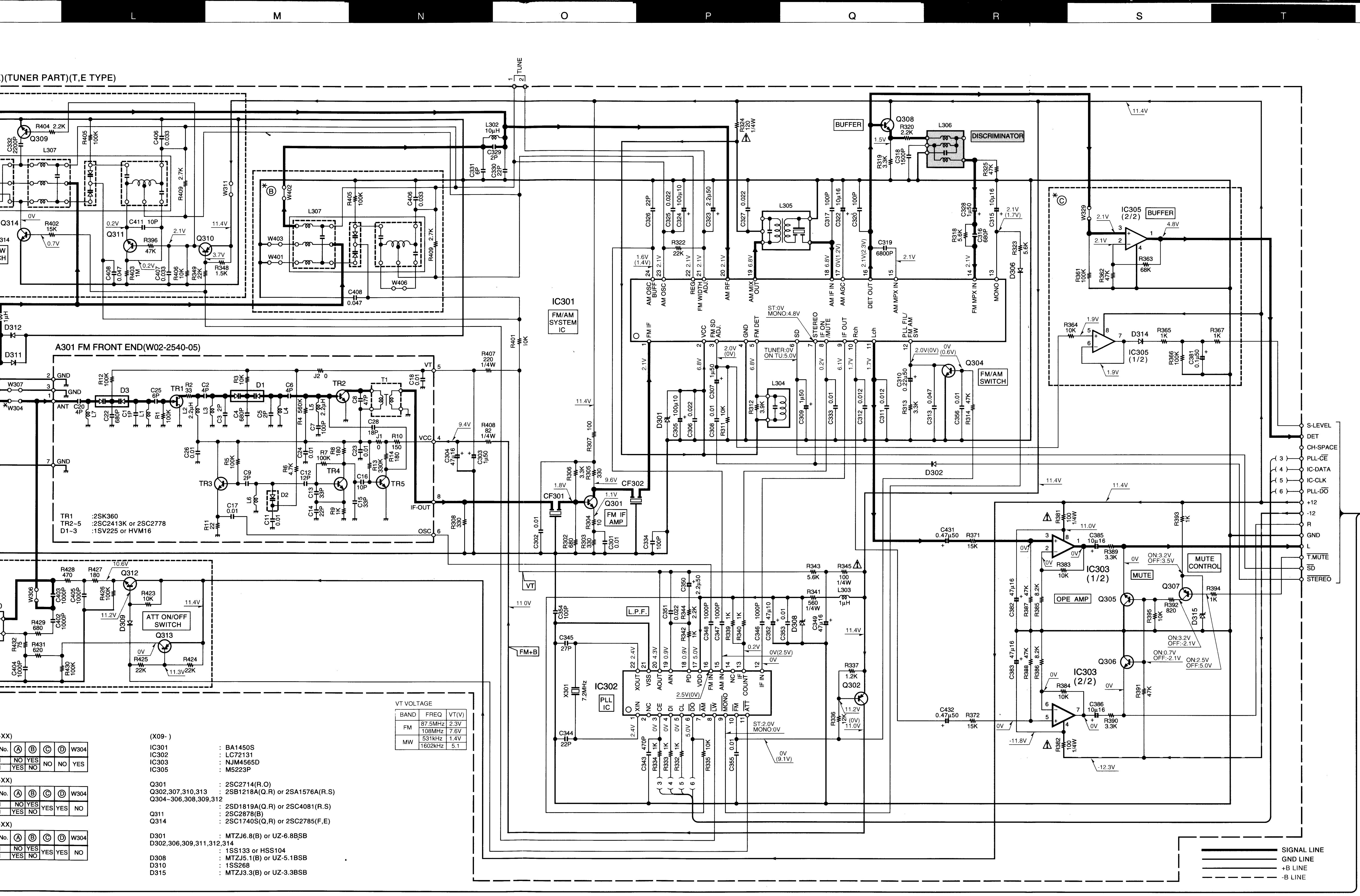
VT VOLTAGE

BAND	FREQ	VT(V)
FM	87.5MHz	2.3V
	108MHz	7.6V
MW	531kHz	1.4V
	1602kHz	5.1

an actual reading measured with a high impedance type /FM signal generator is specified to the conditions as shown in measurement value may vary depending on the measuring on the product. The value shown in ( ) is actual reading mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

)(TUNER PART)(T,E TYPE)


L
M
N
O
P
Q
R
S
T
U
TUNE
A301 FM FRONT END(W02-2540-05)
TR1 : 2SK360
TR2~5 : 2SC2413K or 2SC2778
D1~3 : 1SV225 or HVM16
IC301
FM/AM SYSTEM IC
IC302
PLL IC
IC303 (1/2)
IC303 (2/2)
IC305 (1/2)
IC305 (2/2)
BUFFER
DISCRIMINATOR
FM/AM SWITCH
FM IF AMP
ATT ON/OFF SWITCH
L.P.F.
OPE AMP
MUTE
MUTE CONTROL
FM+B
VT
S-LEVEL
DET
CH-SPACE
PLL-CE
IC-DATA
IC-CLK
PLL-DO
+12
-12
R
GND
L
T.MUTE
SD
STEREO
X09- AMP BLOCK
4/6
A

VT VOLTAGE

BAND	FREQ	VT(V)
FM	87.5MHz	2.3V
	108MHz	7.6V
MW	531kHz	1.4V
	1602kHz	5.1

XX)

No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
	NO	YES	NO	NO	YES
	YES	NO			

XX)

No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
	NO	YES	YES	YES	NO
	YES	NO			

XX)

No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	W304
	NO	YES	YES	YES	NO
	YES	NO			

(X09-)

IC301	: BA1450S
IC302	: LC72131
IC303	: NJM4565D
IC305	: M5223P
Q301	: 2SC2714(R.O)
Q302,307,310,313	: 2SB1218A(Q.R) or 2SA1576A(R.S)
Q304~306,308,309,312	: 2SD1819A(Q.R) or 2SC4081(R.S)
Q311	: 2SC2878(B)
Q314	: 2SC1740S(Q,R) or 2SC2785(F,E)
D301	: MTZJ6.8(B) or UZ-6.8BSB
D302,306,309,311,312,314	: 1SS133 or HSS104
D308	: MTZJ5.1(B) or UZ-5.1BSB
D310	: 1SS268
D315	: MTZJ3.3(B) or UZ-3.3BSB

SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-G3/G4/G5/G31/G51

KENWOOD

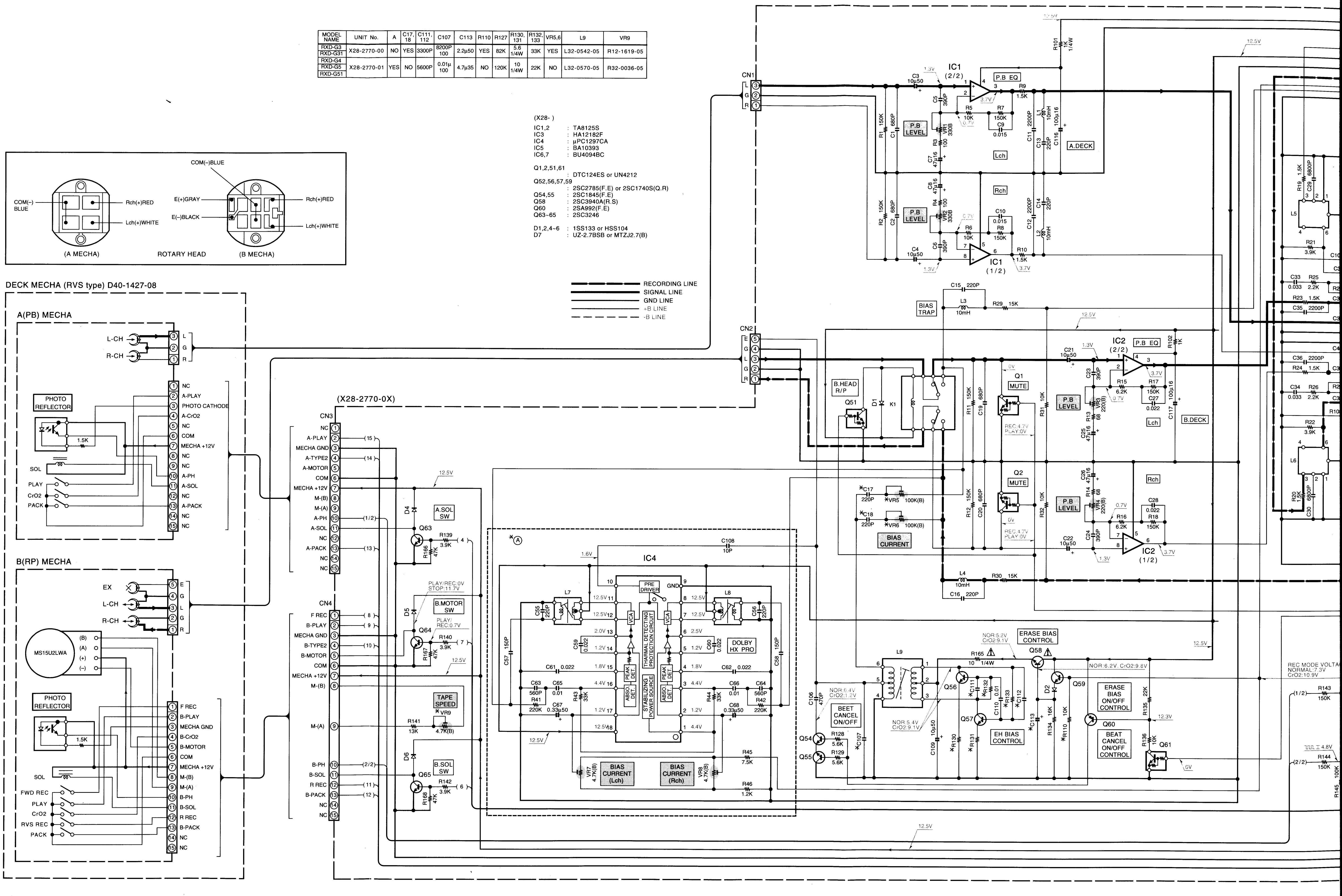
MODEL NAME	UNIT No.	A	C17, 18	C111, 112	C107	C113	R110	R127	R130, 131	R132, 133	VR5,6	L9	VR9
RXD-G3 RXD-G31	X28-2770-00	NO	YES	3300P	8200P 100	2.2µ50	YES	82K	5.6 1/4W	33K	YES	L32-0542-05	R12-1619-05
RXD-G4 RXD-G5 RXD-G51	X28-2770-01	YES	NO	5600P	0.01µ 100	4.7µ35	NO	120K	10 1/4W	22K	NO	L32-0570-05	R32-0036-05

(X28-)

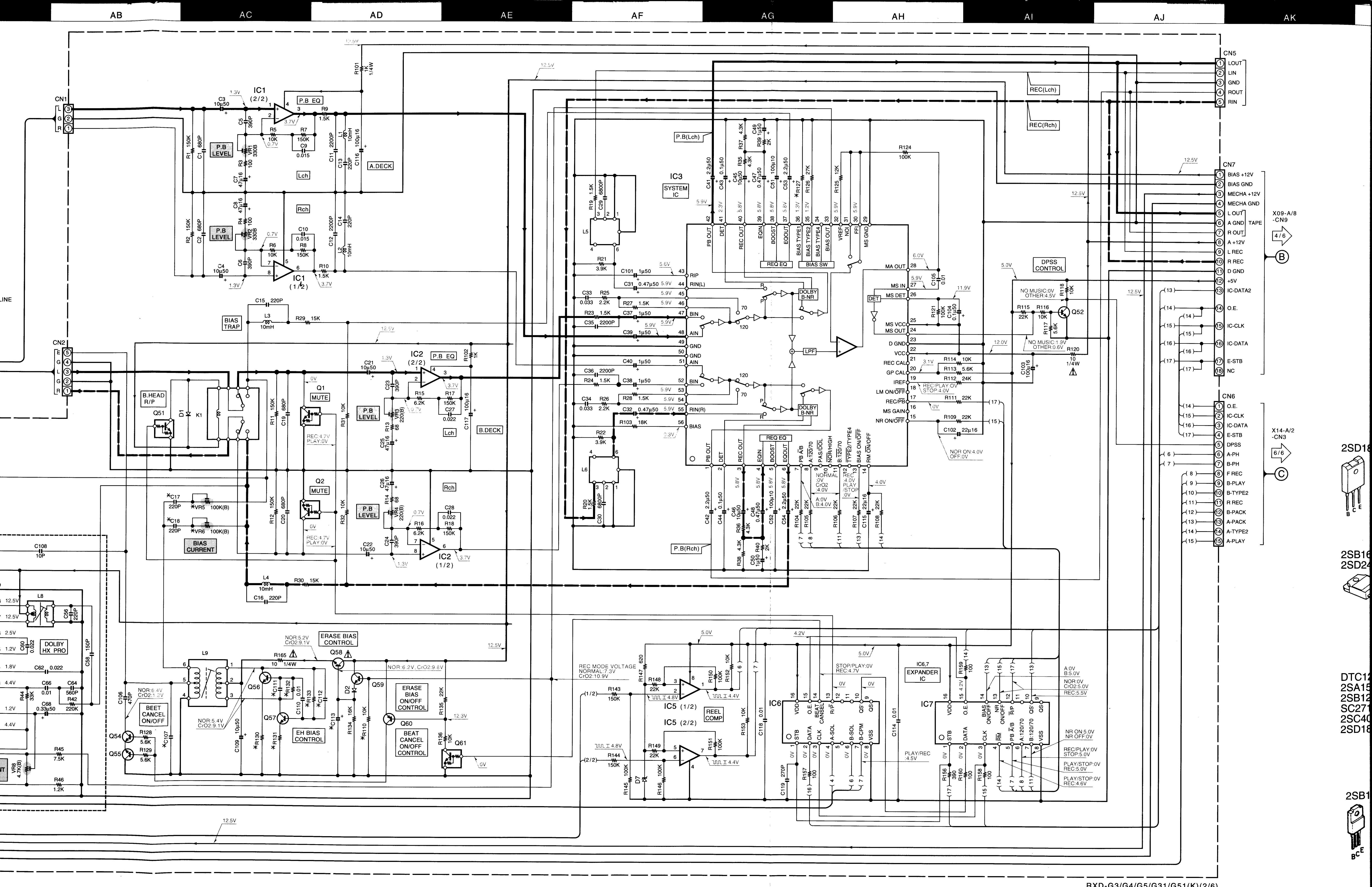
IC1,2 : TA8125S
IC3 : HA12182F
IC4 : µPC1297CA
IC5 : BA10393
IC6,7 : BU4094BC

Q1,2,51,61
: DTC124ES or UN4212
Q52,56,57,59
: 2SC2785(F.E) or 2SC1740S(Q.R)
Q54,55 : 2SC1845(F.E)
Q58 : 2SC3940A(R.S)
Q60 : 2SA992(F.E)
Q63~65 : 2SC3246

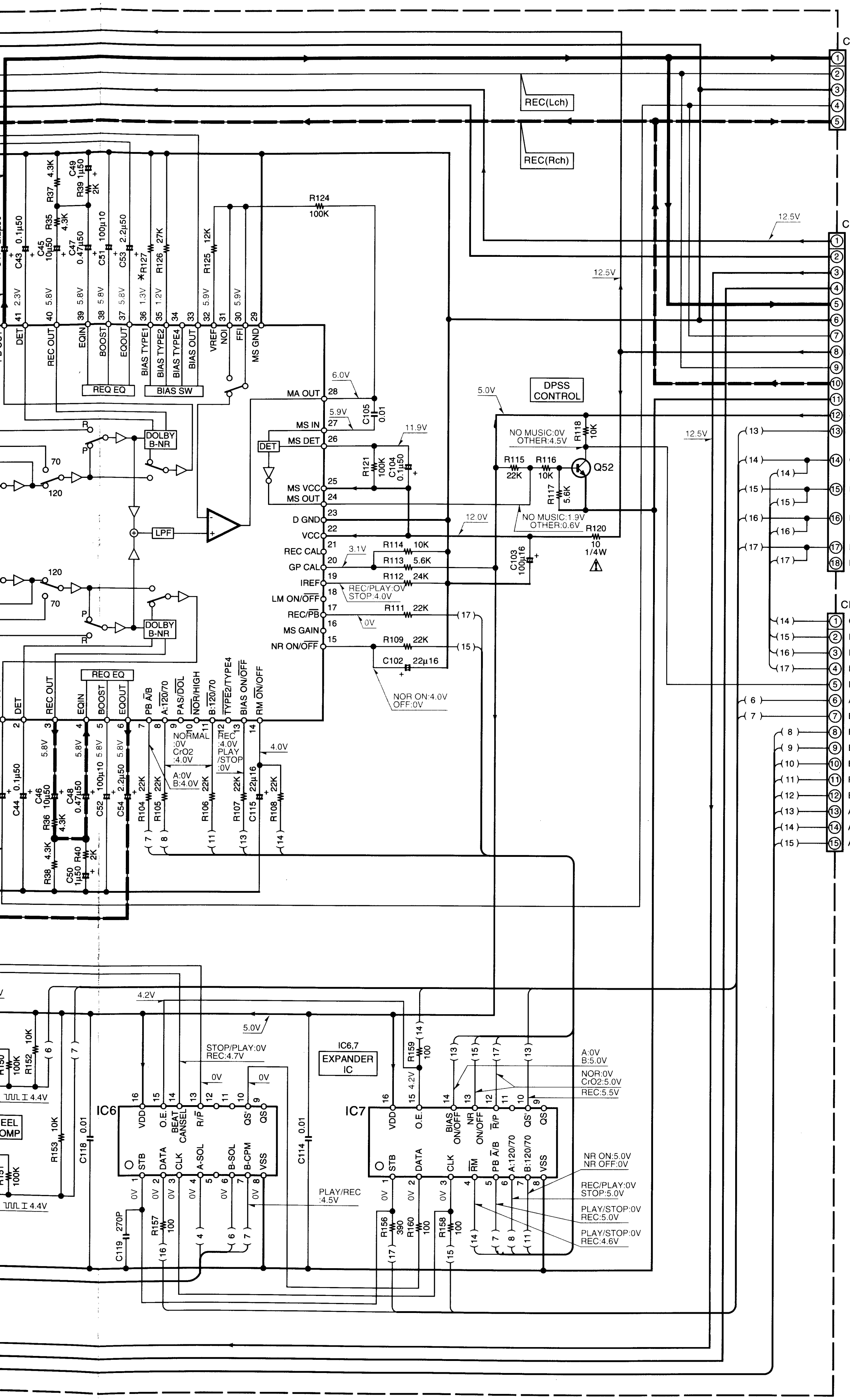
D1,2,4~6 : 1SS133 or HSS104
D7 : UZ-2.7BSB or MTZJ2.7(B)


V
W
X
Y
Z
AA
AB
AC
AD
AE
1
2
3
4
5
6
7
COM(–)BLUE
COM(–) BLUE
Rch(+)RED
Lch(+)WHITE
E(+)GRAY
E(–)BLACK
(A MECHA)
ROTARY HEAD
(B MECHA)
DECK MECHA (RVS type) D40-1427-08
A(PB) MECHA
B(RP) MECHA
L-CH
R-CH
EX
PHOTO REFLECTOR
SOL
PLAY
CrO2
PACK
FWD REC
RVS REC
MS15U2LWA
NC
A-PLAY
PHOTO CATHODE
A-CrO2
COM
MECHA +12V
A-PH
A-SOL
A-PACK
F REC
B-PLAY
MECHA GND
B-CrO2
B-MOTOR
M-(B)
M-(A)
B-PH
B-SOL
R REC
B-PACK
(X28-2770-0X)
CN1
CN2
CN3
CN4
A-TYPE2
A-MOTOR
B-TYPE2
A.SOL SW
B.MOTOR SW
TAPE SPEED
B.SOL SW
PLAY/REC:0V
STOP:11.7V
PLAY/REC:0.7V
Q63
Q64
Q65
D4
D5
D6
VR9
IC4
PRE DRIVER
THERMAL DETECTING PROTECTION CIRCUIT
STABILIZING POWER SOURCE
VCA
PEAK DET.
ABSO DET.
DOLBY HX PRO
BIAS CURRENT (Lch)
BIAS CURRENT (Rch)
L7
L8
IC1 (2/2)
IC1 (1/2)
IC2 (2/2)
IC2 (1/2)
P.B EQ
P.B LEVEL
A.DECK
B.DECK
Lch
Rch
BIAS TRAP
B.HEAD R/P
Q51
K1
Q1 MUTE
Q2 MUTE
REC:4.7V
PLAY:0V
BIAS CURRENT
L9
Q54
Q55
Q56
Q57
Q58
Q59
Q60
Q61
BEET CANCEL ON/OFF
EH BIAS CONTROL
ERASE BIAS CONTROL
ERASE BIAS ON/OFF CONTROL
BEAT CANCEL ON/OFF CONTROL
NOR:6.4V CrO2:1.2V
NOR:5.2V CrO2:9.1V
NOR:5.4V CrO2:9.1V
NOR:6.2V CrO2:9.8V
REC MODE VOLTAGE
NORMAL:7.3V
CrO2:10.9V
12.5V
12.3V
L5
L6

RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE


AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
CN1
CN2
CN5
CN6
CN7
LINE
IC1 (2/2)
IC1 (1/2)
IC2 (2/2)
IC2 (1/2)
P.B EQ
P.B LEVEL
Lch
Rch
A.DECK
B.DECK
BIAS TRAP
B.HEAD R/P
Q51
D1
K1
Q1
Q2
MUTE
REC:4.7V PLAY:0V
BIAS CURRENT
VR5 100K(B)
VR6 100K(B)
IC3
SYSTEM IC
P.B(Lch)
P.B(Rch)
REC(Lch)
REC(Rch)
REQ EQ
BIAS SW
DOLBY B-NR
LPF
DET
PB OUT
REC OUT
EQIN
BOOST
EQOUT
BIAS TYPE1
BIAS TYPE2
BIAS TYPE4
BIAS OUT
VREF
NO
FFI
MS GND
RIP
RIN(L)
BIN
AIN
GND
RIN(R)
BIAS
MA OUT
MS IN
MS DET
MS VCC
MS OUT
D GND
VCC
REC CAL
GP CAL
IREF
LM ON/OFF
REC/PB
MS GAIN
NR ON/OFF
PB A/B
A:120/70
PAS/DOL
NOR/HIGH
B:120/70
TYPE2/TYPE4
BIAS ON/OFF
RM ON/OFF
NORMAL :0V CrO2 :4.0V
REC :4.0V PLAY /STOP :0V
A:0V B:4.0V
REC/PLAY:0V STOP:4.0V
NOR ON:4.0V OFF:0V
DPSS CONTROL
Q52
NO MUSIC:0V OTHER:4.5V
NO MUSIC:1.9V OTHER:0.6V
LOUT
LIN
GND
ROUT
RIN
BIAS +12V
BIAS GND
MECHA +12V
MECHA GND
L OUT
A GND
R OUT
A +12V
L REC
R REC
D GND
+5V
IC-DATA2
O.E.
IC-CLK
IC-DATA
E-STB
NC
TAPE
X09-A/8 -CN9
4/6
B
DPSS
A-PH
B-PH
F REC
B-PLAY
B-TYPE2
R REC
B-PACK
A-PACK
A-TYPE2
A-PLAY
X14-A/2 -CN3
6/6
C
L8
DOLBY HX PRO
VR8 4.7K(B)
L9
ERASE BIAS CONTROL
NOR:5.2V CrO2:9.1V
NOR:6.2V CrO2:9.8V
NOR:6.4V CrO2:1.2V
NOR:5.4V CrO2:9.1V
BEET CANCEL ON/OFF
EH BIAS CONTROL
ERASE BIAS ON/OFF CONTROL
BEAT CANCEL ON/OFF CONTROL
Q54
Q55
Q56
Q57
Q58
Q59
Q60
Q61
D2
D7
REC MODE VOLTAGE NORMAL:7.3V CrO2:10.9V
IC5 (1/2)
IC5 (2/2)
REEL COMP
IC6
IC7
IC6,7 EXPANDER IC
STOP/PLAY:0V REC:4.7V
PLAY/REC :4.5V
VDD
O.E.
BEAT CANSEL
R/P
QS'
QS
STB
DATA
CLK
A-SOL
B-SOL
B-CPM
VSS
A:0V B:5.0V
NOR:0V CrO2:5.0V REC:5.5V
NR ON:5.0V NR OFF:0V
REC/PLAY:0V STOP:5.0V
PLAY/STOP:0V REC:5.0V
PLAY/STOP:0V REC:4.6V
12.5V
5.0V
2SD18
2SB16
2SD24
DTC12
2SA15
2SB12
SC27
2SC40
2SD18
2SB1
B C E

RXD-G3/G4/G5/G31/G51(K)(2/6)


CN5
LOUT
LIN
GND
ROUT
RIN
REC(Lch)
REC(Rch)
CN7
BIAS +12V
BIAS GND
MECHA +12V
MECHA GND
L OUT
A GND
R OUT
TAPE
A +12V
L REC
R REC
D GND
+5V
IC-DATA2
O.E.
IC-CLK
IC-DATA
E-STB
NC
X09-A/8 -CN9
4/6
B
CN6
O.E.
IC-CLK
IC-DATA
E-STB
DPSS
A-PH
B-PH
F REC
B-PLAY
B-TYPE2
R REC
B-PACK
A-PACK
A-TYPE2
A-PLAY
X14-A/2 -CN3
6/6
C
DPSS CONTROL
Q52
NO MUSIC:0V OTHER:4.5V
NO MUSIC:1.9V OTHER:0.6V
R120 10 1/4W
REQ EQ
BIAS SW
DOLBY B-NR
LPF
DET
MA OUT
MS IN
MS DET
MS VCC
MS OUT
D GND
VCC
REC CAL
GP CAL
IREF
LM ON/OFF
REC/PB
MS GAIN
NR ON/OFF
REC/PLAY:0V STOP:4.0V
NOR ON:4.0V OFF:0V
IC6
IC7
IC6,7 EXPANDER IC
STOP/PLAY:0V REC:4.7V
A:0V B:5.0V
NOR:0V CrO2:5.0V REC:5.5V
NR ON:5.0V NR OFF:0V
REC/PLAY:0V STOP:5.0V
PLAY/STOP:0V REC:5.0V
PLAY/STOP:0V REC:4.6V
PLAY/REC 4.5V

RXD-G3/G4/G5/G31/G51(K)(2/6)

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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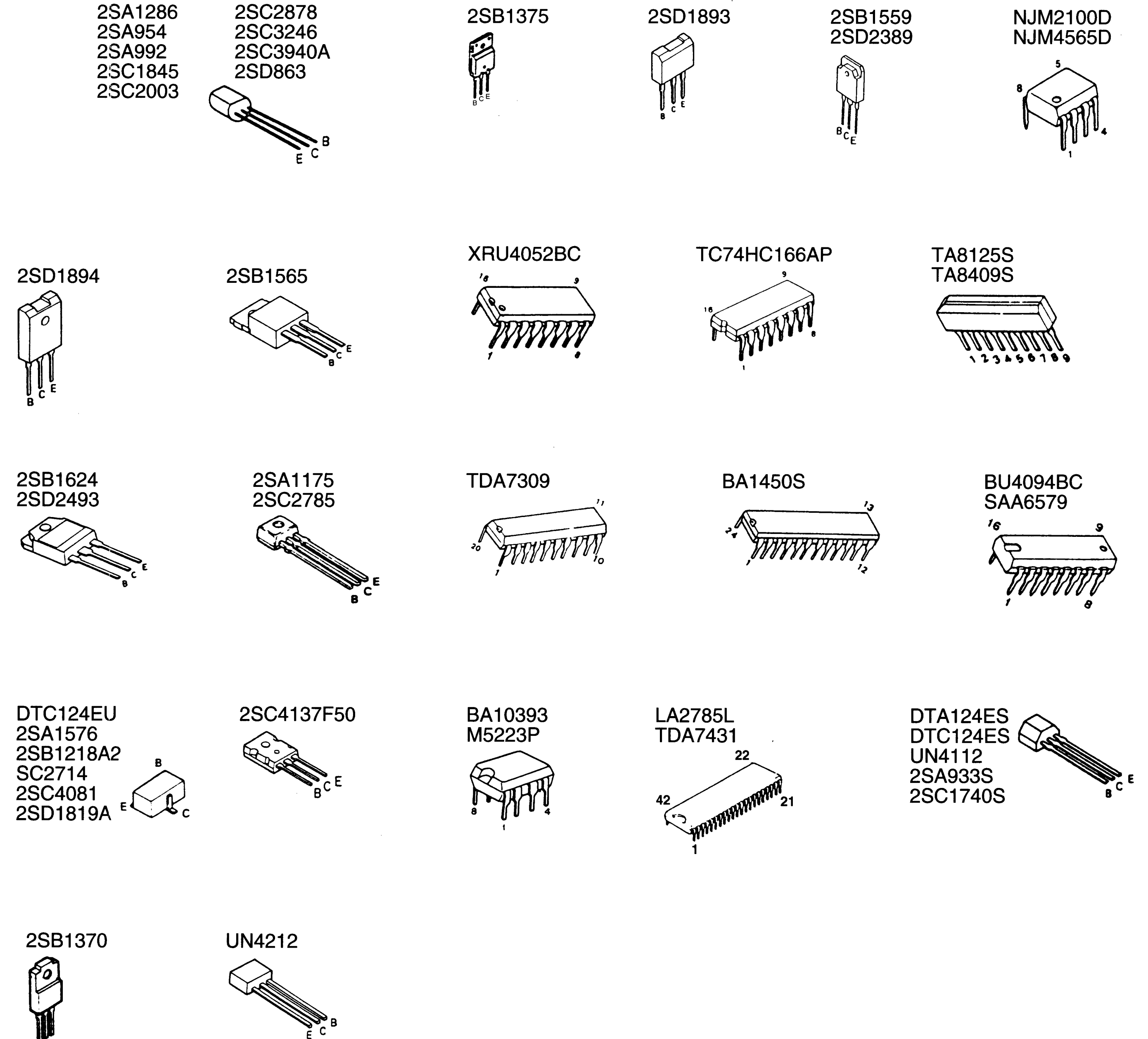
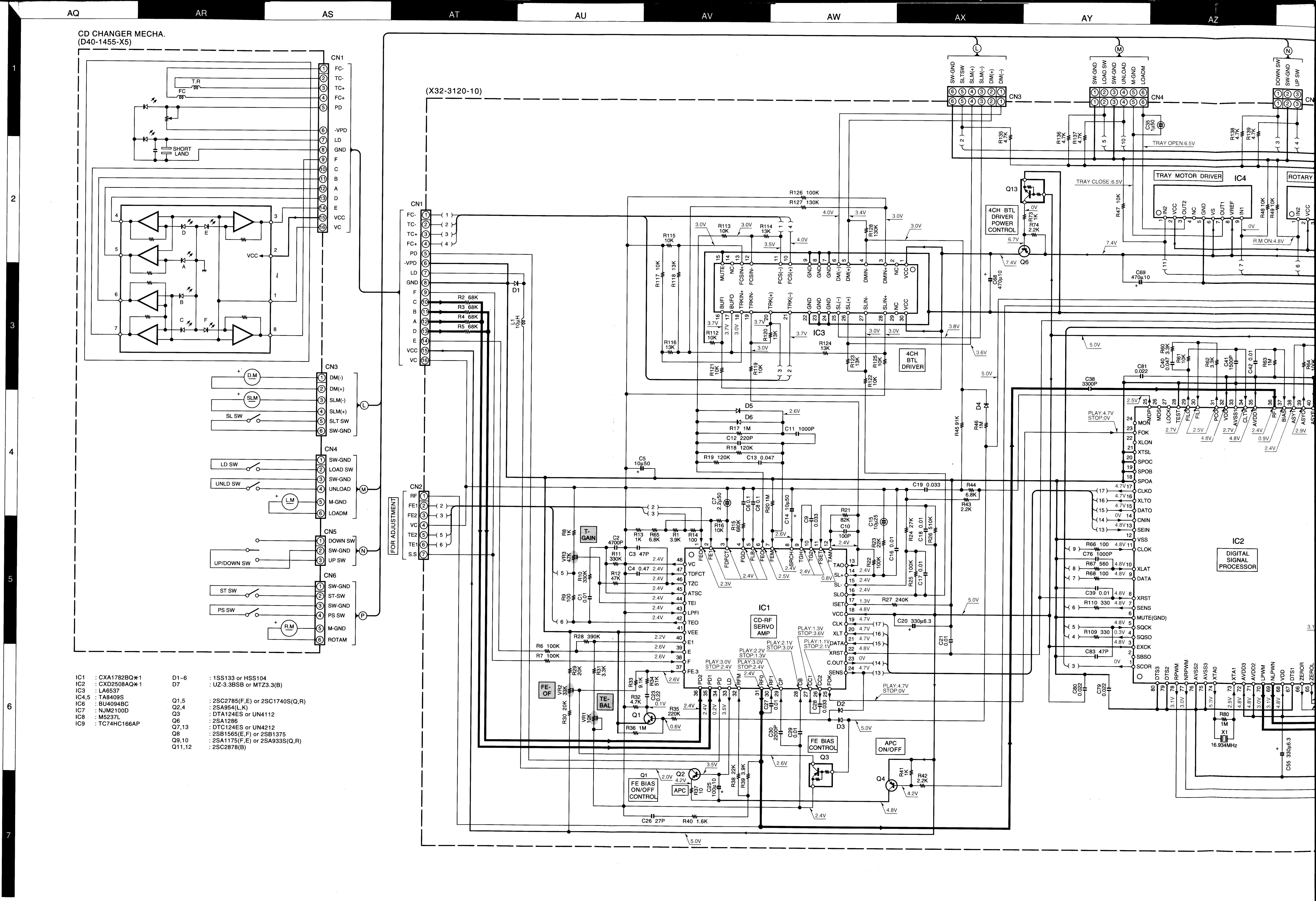

2SA1286
2SA954
2SA992
2SC1845
2SC2003
2SC2878
2SC3246
2SC3940A
2SD863
2SB1375
2SD1893
2SB1559
2SD2389
NJM2100D
NJM4565D
2SD1894
2SB1565
XRU4052BC
TC74HC166AP
TA8125S
TA8409S
2SB1624
2SD2493
2SA1175
2SC2785
TDA7309
BA1450S
BU4094BC
SAA6579
DTC124EU
2SA1576
2SB1218A2
SC2714
2SC4081
2SD1819A
2SC4137F50
BA10393
M5223P
LA2785L
TDA7431
DTA124ES
DTC124ES
UN4112
2SA933S
2SC1740S
2SB1370
UN4212
B
C
E

Y39-2300-00

RXD-G3/G4/G5/G31/G51

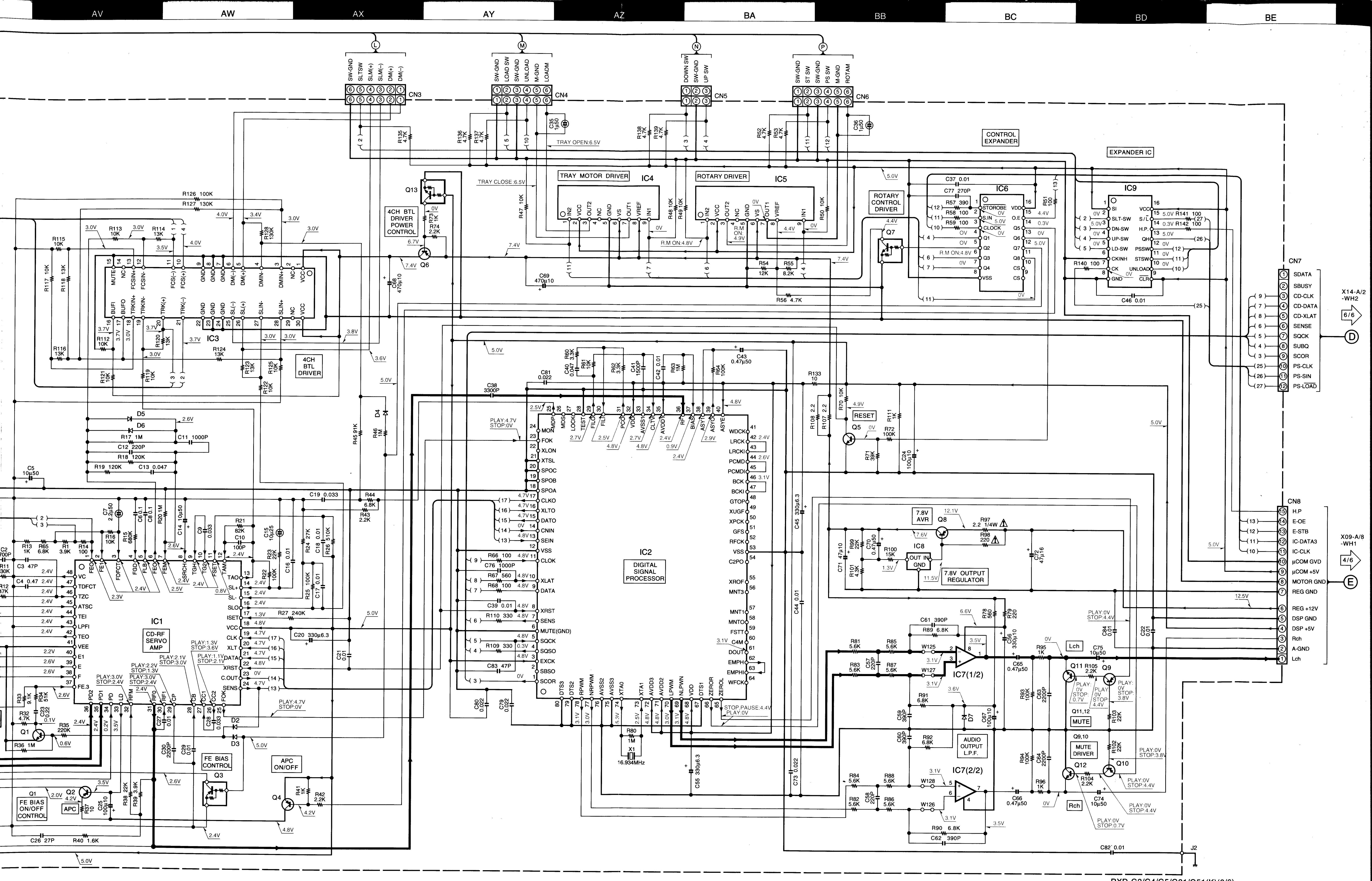
KENWOOD


AQ
AR
AS
AT
AU
AV
AW
AX
AY
AZ
1
2
3
4
5
6
7
CD CHANGER MECHA.
(D40-1455-X5)
CN1
FC-
TC-
TC+
FC+
PD
-VPD
LD
GND
F
C
B
A
D
E
VCC
VC
T.R
FC
SHORT LAND
CN3
DM(-)
DM(+)
SLM(-)
SLM(+)
SLT SW
SW-GND
D.M
SLM
SL SW
CN4
SW-GND
LOAD SW
SW-GND
UNLOAD
M-GND
LOADM
LD SW
UNLD SW
L.M
CN5
DOWN SW
SW-GND
UP SW
UP/DOWN SW
CN6
SW-GND
ST-SW
SW-GND
PS SW
M-GND
ROTAM
ST SW
PS SW
R.M
(X32-3120-10)
FOR ADJUSTMENT
CN2
RF
FE1
FE2
VC
TE2
TE1
S.S
R2 68K
R3 68K
R4 68K
R5 68K
D1
L1 10µH
CN3
SW-GND
SLTSW
SLM(+)
SLM(-)
DM(+)
DM(-)
CN4
SW-GND
LOAD SW
SW-GND
UNLOAD
M-GND
LOADM
DOWN SW
SW-GND
UP SW
4CH BTL DRIVER POWER CONTROL
Q13
Q6
R73 1K
R74 2.2K
C68 470µ10
TRAY OPEN:6.5V
TRAY CLOSE:6.5V
TRAY MOTOR DRIVER
IC4
ROTARY
R.M ON:4.8V
C69 470µ10
C35 1µ50
R126 100K
R127 130K
IC3
4CH BTL DRIVER
MUTE
FCSIN+
FCSIN-
FCS(-)
FCS(+)
GND
DM(-)
DM(+)
DMIN-
DMIN+
VCC
BUFI
BUFO
TRKIN+
TRKIN-
TRK(+)
TRK(-)
SL(-)
SL(+)
SLIN-
SLIN+
NC
D5
D6
R17 1M
C11 1000P
C12 220P
R18 120K
R19 120K
C13 0.047
C5 10µ50
IC1
CD-RF SERVO AMP
T-GAIN
FE-OF
TE-BAL
VR1 10K
VR2 33K
VR3 47K
VC
TDFCT
TZC
ATSC
TEI
LPFI
TEO
VEE
E1
E
F
FE.3
PD2
PD1
PD
LD
RFM
RF0
RF1
CP
CB
CC1
CC2
FOK
FEO
FEI
FDFCT
FGD
FLB
FE0
FEM
SRCH
TGU
TG2
FSET
TA
TAO
SL+
SL-
SLO
ISET
VCC
CLK
XLT
DATA
XRST
C.OUT
SENS
Q1
Q2
Q3
Q4
FE BIAS ON/OFF CONTROL
APC
FE BIAS CONTROL
APC ON/OFF
C26 27P
R40 1.6K
R36 1M
R35 220K
C19 0.033
R44 6.8K
R43 2.2K
C20 330µ6.3
C38 3300P
C81 0.022
IC2
DIGITAL SIGNAL PROCESSOR
MON
FOK
XLON
XTSL
SPOC
SPOB
SPOA
CLKO
XLTO
DATO
CNIN
SEIN
VSS
CLOK
XLAT
DATA
XRST
SENS
MUTE(GND)
SQCK
SQSO
EXCK
SBSO
SCOR
MDP
MDS
LOCK
TEST
FILO
FILI
PCO
VDD
AVSS1
CLTV
AVDD1
RF
BIAS
ASYI
ASYO
DTS3
DTS2
RPWM
NRPWM
AVSS2
XTAO
XTA1
AVDD3
AVDD2
LPWM
NLPWN
VDD
DTS1
ZEROR
X1 16.934MHz
R80 1M
C55 330µ6.3
PLAY:4.7V STOP:0V
PLAY:3.0V STOP:2.4V
PLAY:2.2V STOP:1.3V
PLAY:2.1V STOP:3.0V
PLAY:1.3V STOP:3.6V
PLAY:1.1V STOP:2.1V
5.0V

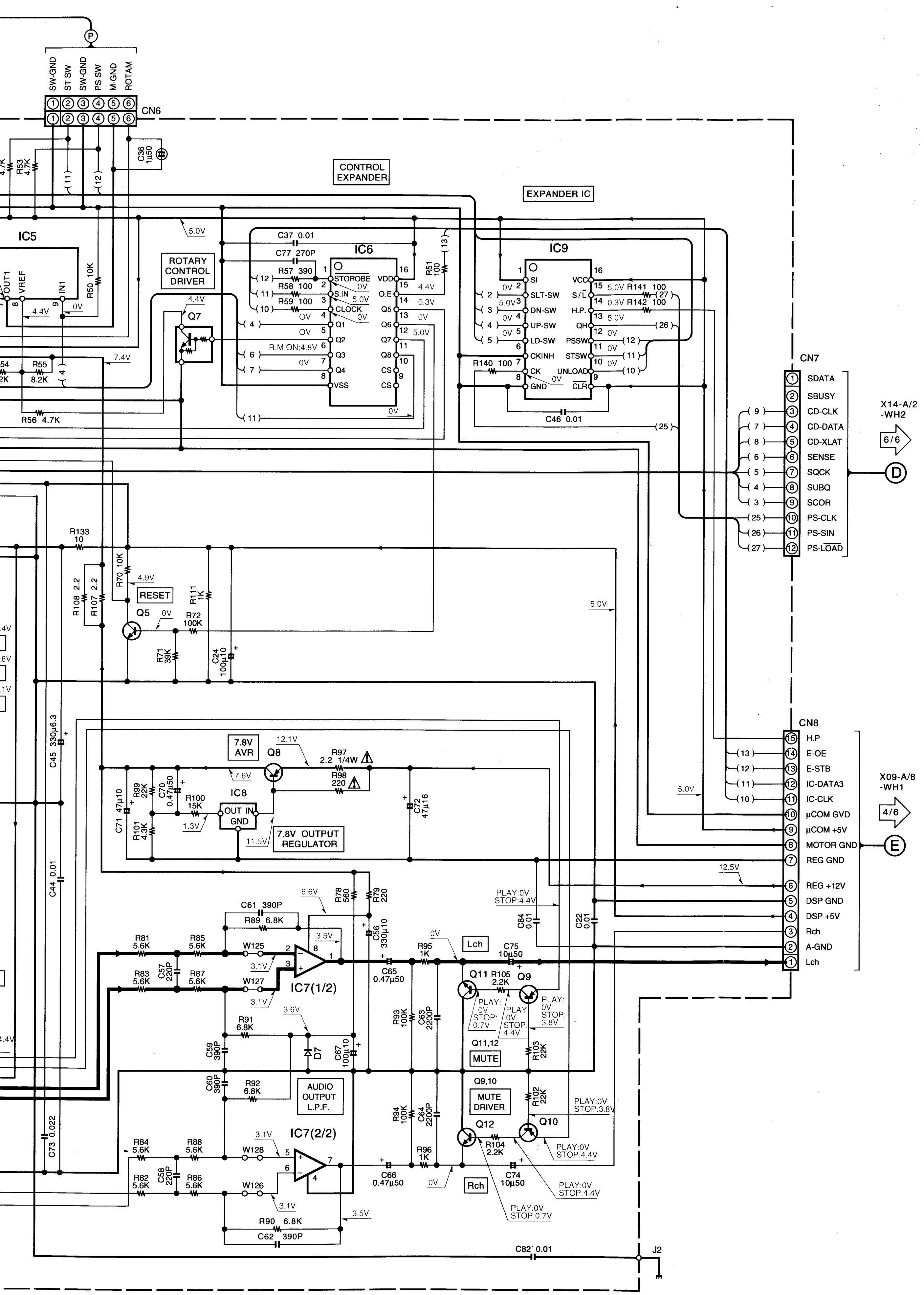
IC1 : CXA1782BQ✱1
IC2 : CXD2508AQ✱1
IC3 : LA6537
IC4,5 : TA8409S
IC6 : BU4094BC
IC7 : NJM2100D
IC8 : M5237L
IC9 : TC74HC166AP

D1~6 : 1SS133 or HSS104
D7 : UZ-3.3BSB or MTZ3.3(B)

Q1,5 : 2SC2785(F,E) or 2SC1740S(Q,R)
Q2,4 : 2SA954(L,K)
Q3 : DTA124ES or UN4112
Q6 : 2SA1286
Q7,13 : DTC124ES or UN4212
Q8 : 2SB1565(E,F) or 2SB1375
Q9,10 : 2SA1175(F,E) or 2SA933S(Q,R)
Q11,12 : 2SC2878(B)


AV
AW
AX
AY
AZ
BA
BB
BC
BD
BE
CN3
SW-GND
SLTSW
SLM(+)
SLM(−)
DM(+)
DM(−)
CN4
SW-GND
LOAD SW
SLT-SW
UNLOAD
M-GND
LOADM
CN5
DOWN SW
SW-GND
UP SW
CN6
SW-GND
ST SW
SW-GND
PS SW
M-GND
ROTAM
TRAY OPEN:6.5V
TRAY CLOSE:6.5V
TRAY MOTOR DRIVER
IC4
ROTARY DRIVER
IC5
CONTROL EXPANDER
EXPANDER IC
IC6
IC9
ROTARY CONTROL DRIVER
Q7
Q13
4CH BTL DRIVER POWER CONTROL
Q6
IC3
4CH BTL DRIVER
R.M ON:4.8V
IC2
DIGITAL SIGNAL PROCESSOR
X1 16.934MHz
IC1
CD-RF SERVO AMP
FE BIAS CONTROL
Q3
APC ON/OFF
Q4
FE BIAS ON/OFF CONTROL
APC
Q1
Q2
D2
D3
D4
D5
D6
Q5
RESET
7.8V AVR
Q8
IC8
7.8V OUTPUT REGULATOR
IC7(1/2)
IC7(2/2)
AUDIO OUTPUT L.P.F.
Q11
Q9
Q11,12
MUTE
Q9,10
MUTE DRIVER
Q12
Q10
Lch
Rch
CN7
SDATA
SBUSY
CD-CLK
CD-DATA
CD-XLAT
SENSE
SQCK
SUBQ
SCOR
PS-CLK
PS-SIN
PS-LOAD
X14-A/2 -WH2
6/6
D
CN8
H.P
E-OE
E-STB
IC-DATA3
IC-CLK
μCOM GVD
μCOM +5V
MOTOR GND
REG GND
REG +12V
DSP GND
DSP +5V
Rch
A-GND
Lch
X09-A/8 -WH1
4/6
E
J2

RXD-G3/G4/G5/G31/G51(K)(3/6)

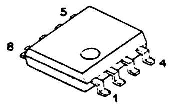

CN6
SW-GND
ST SW
SW-GND
PS SW
M-GND
ROTAM
C36 1µ50
R53 4.7K
IC5
OUT1
VREF
IN1
R50 10K
R55 8.2K
R56 4.7K
CONTROL EXPANDER
EXPANDER IC
ROTARY CONTROL DRIVER
Q7
IC6
C37 0.01
C77 270P
R57 390
R58 100
R59 100
STOROBE
S IN
CLOCK
VDD
O.E
Q1
Q2
Q3
Q4
VSS
Q5
Q6
Q7
Q8
CS
R51 100
R.M ON:4.8V
IC9
SI
SLT-SW
DN-SW
UP-SW
LD-SW
CKINH
CK
GND
VCC
S/L
H.P.
QH
PSSW
STSW
UNLOAD
CLR
R141 100
R142 100
R140 100
C46 0.01
CN7
SDATA
SBUSY
CD-CLK
CD-DATA
CD-XLAT
SENSE
SQCK
SUBQ
SCOR
PS-CLK
PS-SIN
PS-LOAD
X14-A/2 -WH2
6/6
D
R133 10
R108 2.2
R107 2.2
R70 10K
RESET
Q5
R72 100K
R71 39K
R111 1K
C24 100µ10
C45 330µ6.3
C44 0.01
7.8V AVR
Q8
R97 2.2 1/4W
R98 220
C71 47µ10
R99 22K
C70 0.47µ50
R100 15K
IC8
OUT IN GND
R101 4.3K
7.8V OUTPUT REGULATOR
C72 47µ16
CN8
H.P
E-OE
E-STB
IC-DATA3
IC-CLK
µCOM GVD
µCOM +5V
MOTOR GND
REG GND
REG +12V
DSP GND
DSP +5V
Rch
A-GND
Lch
X09-A/8 -WH1
4/6
E
C61 390P
R89 6.8K
R78 560
R79 220
C56 330µ10
R81 5.6K
R85 5.6K
W125
R83 5.6K
C57 220P
R87 5.6K
W127
IC7(1/2)
R95 1K
Lch
C75 10µ50
C65 0.47µ50
Q11
R105 2.2K
Q9
C84 0.01
C22 0.01
PLAY:0V STOP:4.4V
R91 6.8K
D7
C67 100µ10
C59 390P
R93 100K
C63 2200P
Q11,12 MUTE
R103 22K
Q9,10 MUTE DRIVER
R102 22K
C60 390P
R92 6.8K
AUDIO OUTPUT L.P.F.
R94 100K
C64 2200P
Q12
Q10
R84 5.6K
R88 5.6K
W128
IC7(2/2)
R82 5.6K
C58 220P
R86 5.6K
W126
R96 1K
R104 2.2K
C66 0.47µ50
C74 10µ50
Rch
R90 6.8K
C62 390P
C73 0.022
C82 0.01
J2

RXD-G3/G4/G5/G31/G51(K)(3/6)

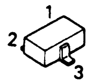
CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in (   ) is the voltage measured at the moment of STOP.

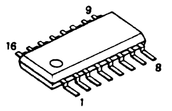
NJM4565MD



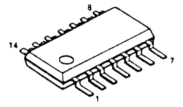
UN5212



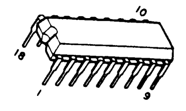
BU4094BCF



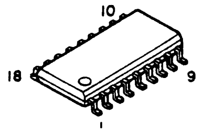
BU4066BCF



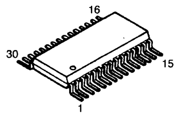
UPC1297CA



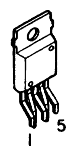
BA3835F



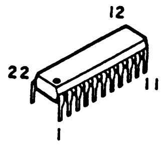
NJU7313AM



TDA2050V



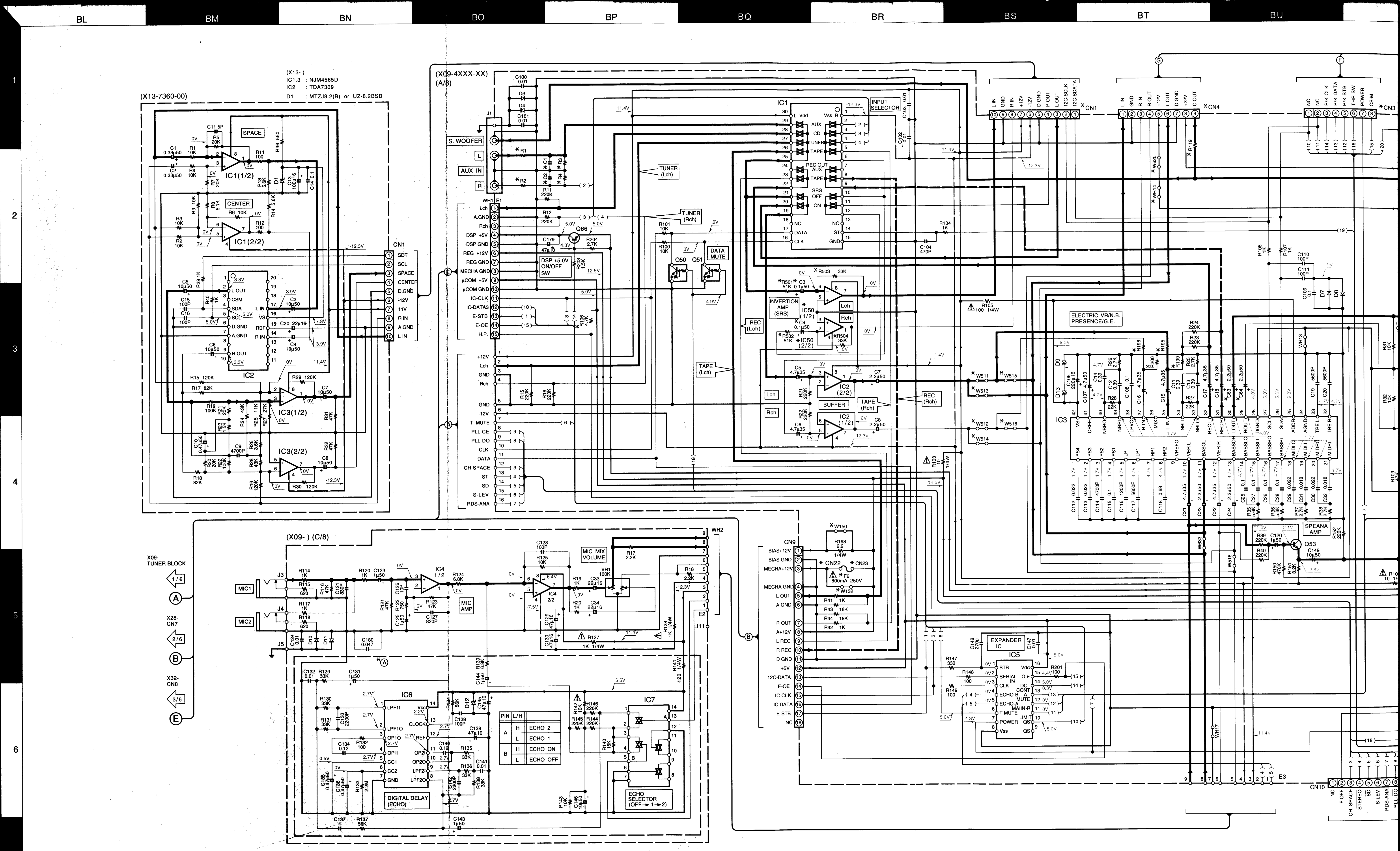
LC72131



Y39-2300-00

RXD-G3/G4/G5/G31/G51

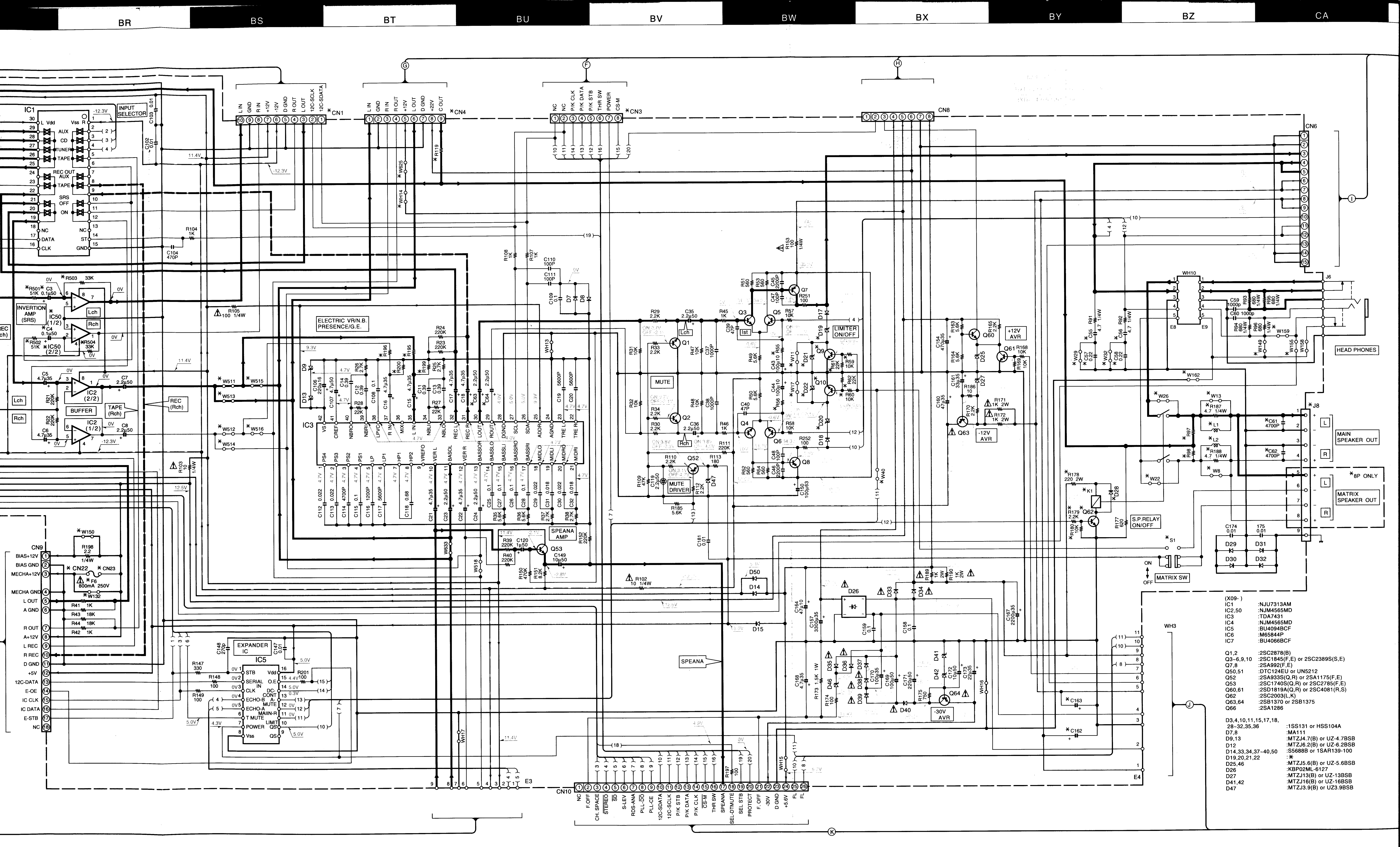
KENWOOD


BL
BM
BN
BO
BP
BQ
BR
BS
BT
BU
(X13-)
IC1.3 : NJM4565D
IC2 : TDA7309
D1 : MTZJ8.2(B) or UZ-8.2BSB
(X13-7360-00)
SPACE
CENTER
IC1(1/2)
IC1(2/2)
IC2
IC3(1/2)
IC3(2/2)
CN1
SDT
SCL
SPACE
CENTER
D.GND
-12V
11V
R IN
A.GND
L IN
(X09-4XXX-XX)
(A/8)
S. WOOFER
AUX IN
TUNER (Lch)
TUNER (Rch)
DSP +5.0V ON/OFF SW
Q66
Q50
Q51
DATA MUTE
IC1
INPUT SELECTOR
AUX
CD
TUNER
TAPE
REC OUT
SRS OFF
ON
INVERTION AMP (SRS)
IC50 (1/2)
IC50 (2/2)
REC (Lch)
REC (Rch)
TAPE (Lch)
TAPE (Rch)
BUFFER
IC2 (1/2)
IC2 (2/2)
ELECTRIC VR/N.B. PRESENCE/G.E.
IC3
SPEANA AMP
Q53
CN1
CN3
CN4
CN9
CN10
IC5
EXPANDER IC
X09- TUNER BLOCK
X28- CN7
X32- CN8
1/6
2/6
3/6
(X09-) (C/8)
MIC1
MIC2
MIC AMP
MIC MIX VOLUME
IC4 1/2
IC4 2/2
IC6
DIGITAL DELAY (ECHO)
IC7
ECHO SELECTOR (OFF → 1 → 2)
WH2
PIN
L/H
ECHO 2
ECHO 1
ECHO ON
ECHO OFF

***CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB


BR
BS
BT
BU
BV
BW
BX
BY
BZ
CA
IC1
INPUT SELECTOR
AUX
CD
TUNER
TAPE
REC OUT
SRS
OFF
ON
INVERTION AMP (SRS)
IC50 (1/2)
IC50 (2/2)
Lch
Rch
IC2 (2/2)
IC2 (1/2)
BUFFER
TAPE (Rch)
REC (Rch)
CN1
CN4
CN3
CN8
CN6
ELECTRIC VR/N.B. PRESENCE/G.E.
IC3
SPEANA AMP
MUTE
MUTE DRIVER
LIMITER ON/OFF
+12V AVR
-12V AVR
-30V AVR
HEAD PHONES
MAIN SPEAKER OUT
8P ONLY
MATRIX SPEAKER OUT
S.P.RELAY ON/OFF
MATRIX SW
ON
OFF
CN9
EXPANDER IC
IC5
SPEANA
CN10
E3
E4
J6
J8
WH3
WH10

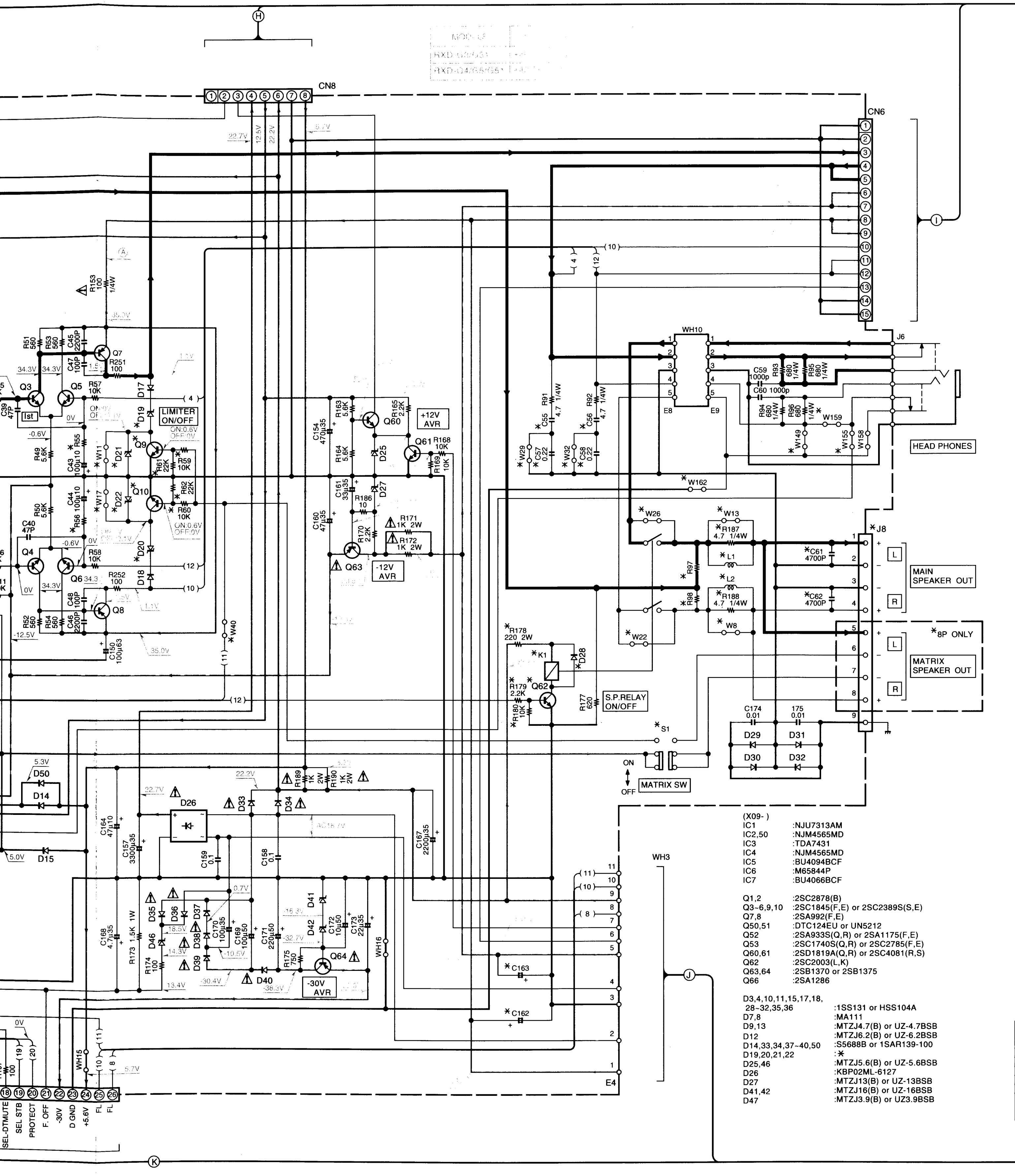
(X09-)

IC1	:NJU7313AM
IC2,50	:NJM4565MD
IC3	:TDA7431
IC4	:NJM4565MD
IC5	:BU4094BCF
IC6	:M65844P
IC7	:BU4066BCF
Q1,2	:2SC2878(B)
Q3~6,9,10	:2SC1845(F,E) or 2SC2389S(S,E)
Q7,8	:2SA992(F,E)
Q50,51	:DTC124EU or UN5212
Q52	:2SA933S(Q,R) or 2SA1175(F,E)
Q53	:2SC1740S(Q,R) or 2SC2785(F,E)
Q60,61	:2SD1819A(Q,R) or 2SC4081(R,S)
Q62	:2SC2003(L,K)
Q63,64	:2SB1370 or 2SB1375
Q66	:2SA1286
D3,4,10,11,15,17,18, 28~32,35,36	:1SS131 or HSS104A
D7,8	:MA111
D9,13	:MTZJ4.7(B) or UZ-4.7BSB
D12	:MTZJ6.2(B) or UZ-6.2BSB
D14,33,34,37~40,50	:S5688B or 1SAR139-100
D19,20,21,22	:*
D25,46	:MTZJ5.6(B) or UZ-5.6BSB
D26	:KBP02ML-6127
D27	:MTZJ13(B) or UZ-13BSB
D41,42	:MTZJ16(B) or UZ-16BSB
D47	:MTZJ3.9(B) or UZ3.9BSB

pedance type
s as shown in
he measuring
ctual reading

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

BW BX BY BZ CA CB CC CD CE CF



RXD-G3 (X09-431X-XX)

DESTINATION	UNIT No.	Ⓐ	IC50	Q9,10	Q62	D19,20	D21,22, 28	C1,2	C3,4	C55, 56	C57, 58	C61, 62	C63, 64	C162, 163	R1~4	R55, 56	R59~ 62	R97, 98	R106,119,178~180, 501~504	R187, 188	R195, 196
K	0-11	NO	NO	NO	NO	MTZJ30(B) or UZ-30BS	NO	NO	NO	0.1	NO	NO	2.2μ 50	4700μ 56	33K	39	NO	8.2K	NO	NO	100
P																					
Y	0-21			YES		MTZJ15(B) or UZ-15BSB								3300μ 50		43	YES	6.2K			
M																					
X	0-71									0.22	YES										
E	2-71							6P				YES								YES	
T	0-51																				

DESTINATION	UNIT No.	R198	R199, 200	CN1, 3,4	CN22, 23	K1	S1	J8	L1,2	F6	W8, 13	W11, 17	W22,26,158, 159,511,512	W29, 32	W39,132, 150	W40,76,79,82,106,111,115,144,149,155,162, 173,175,513~516,611,612,614,616,618	WH14
K	0-11	YES	220K	NO	YES	NO	NO	4P	NO	YES	YES	YES	YES	YES	NO	NO	NO
P																	
Y	0-21	NO			NO		YES	8P		NO		NO			YES		
M																	
X	0-71													NO			
E	2-71								YES		NO						
T	0-51																

RXD-G4 (X09-432X-XX)

DESTINATION	UNIT No.	Ⓐ	IC50	Q9,10	Q62	D19,20	D21, 22	D28	C1,2	C3,4	C55, 56	C57, 58	C61, 62	C63, 64	C162, 163	R1,2	R3,4	R55, 56	R59~ 62	R97, 98	R106, 119,178~180	R187, 188	R195, 196	R198
K	0-11	NO	YES	NO	NO	MTZJ24(B) or UZ-24BS	YES	NO	NO	YES	0.1	NO	NO	3.3μ 50	5600μ 63	33K	120K	33	NO	10K	NO	NO	100	YES
P																								
Y	0-21			YES		MTZJ18(B) or UZ-18BSB	NO								4700μ 63			39	YES	8.2K				NO
M																								
I																								
C	3-01																							
X	0-71										0.22	YES												
E	2-71								6P				YES									YES		
T	0-51																							

DESTINATION	UNIT No.	R199, 200	R501~ 504	CN1	CN3, 4	CN22, 23	K1	S1	J8	L1,2	F6	W8, 13	W11,17,40,106,149,155, 162,173,175,513~516	W22,26,76,79,82,111,115,144,158, 159,511,512,611,612,614,616,618	W29, 32	W39, 132,150	WH14
K	0-11	220K	YES	YES	NO	YES	NO	NO	4P	NO	YES	YES	NO	YES	YES	NO	NO
P																	
Y	0-21					NO		YES	8P		NO					YES	
M																	
I																	
C	3-01																
X	0-71														NO		
E	2-71									YES		NO					
T	0-51																

RXD-G5 (X09-445X-XX)

DESTINATION	UNIT No.	Ⓐ	IC50	Q9,10, 62	D19,20	D21, 22	D28	C1,2	C3,4	C55, 56	C57, 58	C61, 62	C63, 64	C162, 163	R1,2	R3,4	R55, 56	R59~62,106, 178~180,501~504	R97, 98	R119	R187, 188	R195, 196
K	0-10	NO	YES	YES	MTZJ24(B) or UZ-24BS	YES	YES	NO	YES	0.1	NO	NO	3.3μ 50	5600μ 63	470	220K	33	YES	10K	8.2K	NO	8.2K
P																						
Y	0-21					NO								4700μ 63			39		8.2K	7.5K		
M																						
I																						
C	3-01																					
X	0-71									0.22	YES											
E	2-71							470P				YES									YES	
T	0-51																					

DESTINATION	UNIT No.	R198	R199, 200	CN1, 3,4	CN22, 23	K1	S1	J8	L1,2	F6	W8, 13	W11,17,22,26,39, 158,159,511,512	W29, 32	W40,76,79,82,106,111,115,144,149,155,162, 173,175,513~516,611,612,614,616,618	W132, 150	WH14
K	0-10	YES	10K	YES	YES	YES	NO	4P	NO	YES	YES	NO	YES	YES	NO	YES
P																
Y	0-21	NO			NO					NO					YES	
M																
I																
C	3-01															
X	0-71												NO			
E	2-71								YES		NO					
T	0-51															

RXD-G31 (X09-432X-XX)

DESTINATION	UNIT No.	Ⓐ	IC50	Q9,10	Q62	D19,20	D21,22, 28	C1~4	C55, 56	C57,58 61,62	C63, 64	C162, 163	R1~4	R55, 56	R59~ 62	R97, 98	R106,178~180,119, 187,188,198,501~504
M	0-23	YES	NO	YES	NO	MTZJ15(B) or UZ-15BSB	NO	NO	0.1	NO	2.2μ 50	3300μ 50	33K	43	YES	6.2K	NO
I																	
C	3-02																

DESTINATION	UNIT No.	R195, 196	R199, 200	CN1,3,4, 22,23	K1	S1	J8	L1,2	F6	W8,13,22,26,29,32,39, 132,150,158,159,511,512	W11,17,40,76,79,82,106,111,115,144,149,155, 162,173,175,513~516,611,612,614,616,618	WH14
M	0-23	100	220K	NO	NO	YES	8P	NO	NO	YES	NO	NO
I												
C	3-02											

RXD-G51 (X09-445X-XX)

DESTINATION	UNIT No.	Ⓐ	IC50	Q9,10	Q62	D19,20	D21,22, 28	C1,2,57, 58,61,62	C3,4	C55, 56	C63, 64	C162, 163	R1,2	R3,4	R55, 56	R59~62, 501~504	R97, 98	R106,119,178~180, 187,188,198
M	0-23	YES	YES	YES	NO	MTZJ16(B) or UZ-16BSB	NO	NO	YES	0.1	3.3μ 50	4700μ 63	33K	120K	39	YES	8.2K	NO
I																		
C	3-03																	

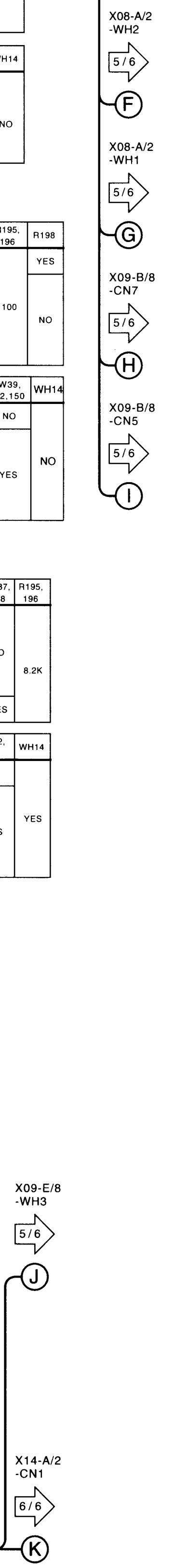
DESTINATION	UNIT No.	R195, 196	R199, 200	CN1	CN3,4, 22,23	K1	S1	J8	L1,2	F6	W8,13,22,26,29,32,39,76,79,82,111,115,132, 132,150,158,159,511,512,611,612,614,616,618	W11,17,40,106,144,149, 155,162,173,175,513~516	WH14
M	0-23	100	220K	YES	NO	NO	YES	8P	NO	NO	YES	NO	NO
I													
C	3-03												

(X09-)

IC1	:NJU7313AM
IC2,50	:NJM4565MD
IC3	:TDA7431
IC4	:NJM4565MD
IC5	:BU4094BCF
IC6	:M65844P
IC7	:BU4066BCF
Q1,2	:2SC2878(B)
Q3~6,9,10	:2SC1845(F,E) or 2SC2389S(S,E)
Q7,8	:2SA992(F,E)
Q50,51	:DTC124EU or UN5212
Q52	:2SA933S(Q,R) or 2SA1175(F,E)
Q53	:2SC1740S(Q,R) or 2SC2785(F,E)
Q60,61	:2SD1819A(Q,R) or 2SC4081(R,S)
Q62	:2SC2003(L,K)
Q63,64	:2SB1370 or 2SB1375
Q66	:2SA1286
D3,4,10,11,15,17,18, 28~32,35,36	:1SS131 or HSS104A
D7,8	:MA111
D9,13	:MTZJ4.7(B) or UZ-4.7BSB
D12	:MTZJ6.2(B) or UZ-6.2BSB
D14,33,34,37~40,50	:S5688B or 1SAR139-100
D19,20,21,22	:*
D25,46	:MTZJ5.6(B) or UZ-5.6BSB
D26	:KBP02ML-6127
D27	:MTZJ13(B) or UZ-13BSB
D41,42	:MTZJ16(B) or UZ-16BSB
D47	:MTZJ3.9(B) or UZ3.9BSB

DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
PX	Y
GENERAL MARKET	M
MALAYSIA	I
CHAINA	C
AUSTRALIA	X
EUROPE	E
U.K.	T

RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

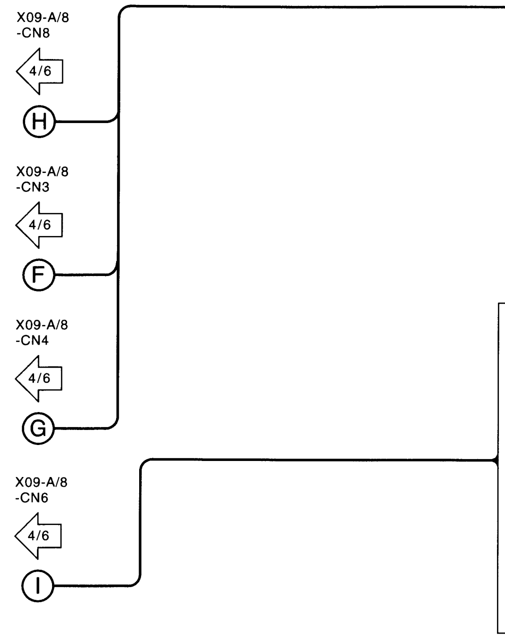


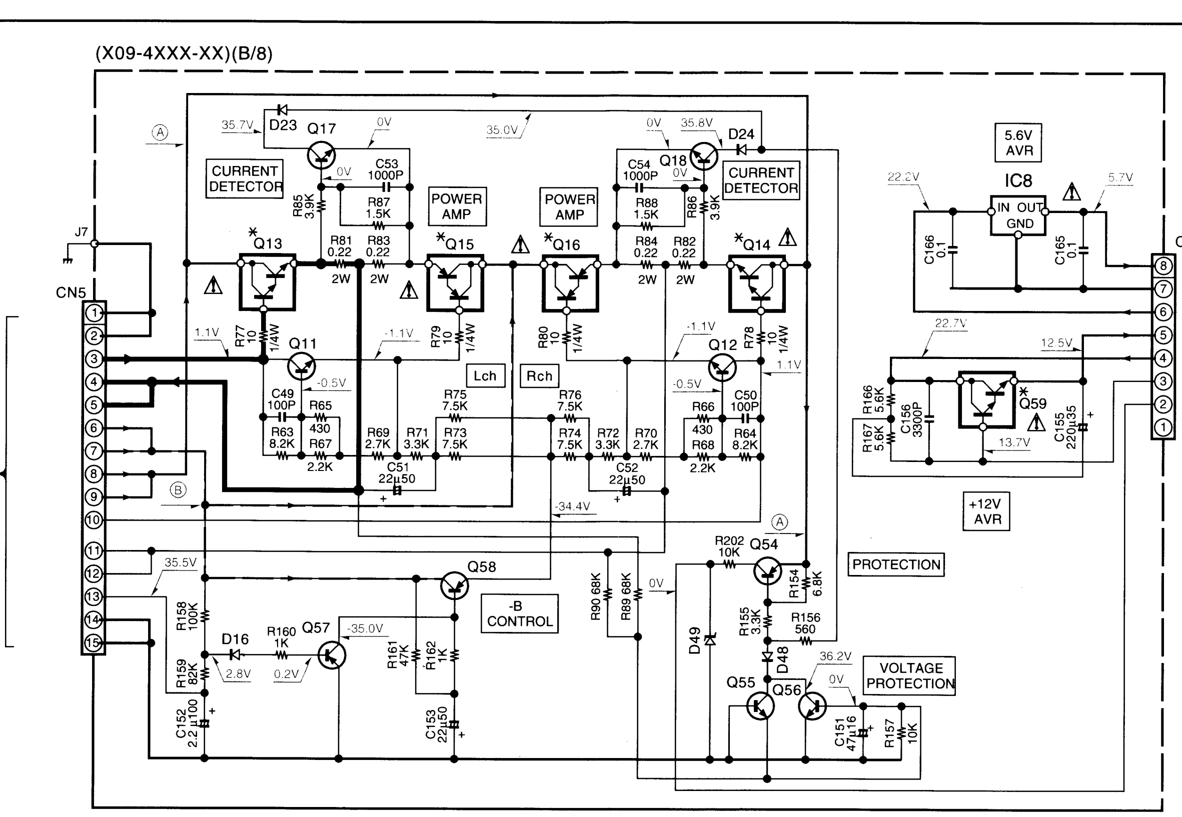
RXD-G3/G4/G5/G31/G51(K)(4/6)

Y39-2300-00

RXD-G3/G4/G5/G31/G51

KENWOOD


X09-A/8
-CN8
4/6
H
X09-A/8
-CN3
4/6
F
X09-A/8
-CN4
4/6
G
X09-A/8
-CN6
4/6
I


(X09-4XXX-XX)(B/8)
CURRENT DETECTOR
POWER AMP
POWER AMP
CURRENT DETECTOR
Q13
Q15
Q16
Q14
Q17
Q18
D23
D24
Q11
Q12
Lch
Rch
CN5
J7
5.6V AVR
IC8
IN OUT GND
CN7
Q59
+12V AVR
PROTECTION
Q54
Q58
-B CONTROL
Q57
D16
D49
D48
Q55
Q56
VOLTAGE PROTECTION

RXD-G3 (X09-431X-XX)

DESTINATION	UNIT No.	Q13,14	Q15,16	Q59	F1,2	F3
K	0-11	2SD2493	2SB1624	2SD1894	5A 125V	4A 125V
P						
Y	0-21			2SD1893	T4A L 250V	T2.5A L 250V
M						
X	0-71					
E	2-71					
T	0-51					

RXD-G4 (X09-432X-XX)

DESTINATION	UNIT No.	Q13,14	Q15,16	Q59	F1,2	F3
K	0-11	2SD2389	2SB1559	2SD1894	6A 125V	4A 125V
P						
Y	0-21	2SD2493	2SB1624	2SD1893	T4A L 250V	T2.5A L 250V
M						
I						
C	3-01					
X	0-71					
E	2-71					
T	0-51					

RXD-G5 (X09-445X-XX)

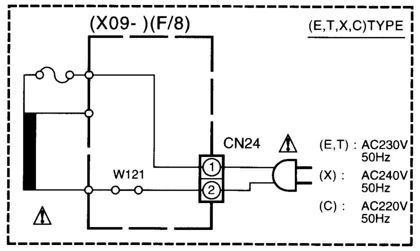
DESTINATION	UNIT No.	Q13,14	Q15,16	Q59	F1,2	F3
K	0-10	2SD2389	2SB1559	2SD1894	6A 125V	4A 125V
P						
Y	0-21	2SD2493	2SB1624	2SD1893	T4A L 250V	T2.5A L 250V
M						
I						
C	3-01					
X	0-71					
E	2-71					
T	0-51					

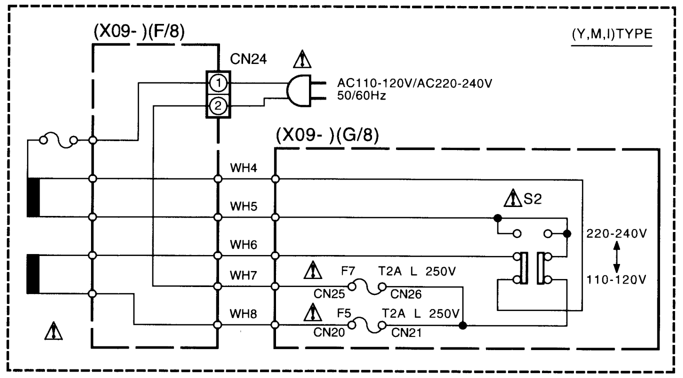
RXD-G31 (X09-431X-XX)

DESTINATION	UNIT No.	Q13,14	Q15,16	Q59	F1,2	F3
M	0-22	2SD2493	2SB1624	2SD1893	T4A L 250V	T2.5A L 250V
I						
C	3-01					

RXD-G51 (X09-445X-XX)

DESTINATION	UNIT No.	Q13,14	Q15,16	Q59	F1,2	F3
M	0-22	2SD2493	2SB1624	2SD1893	T4A L 250V	T2.5A L 250V
I						
C	3-02					

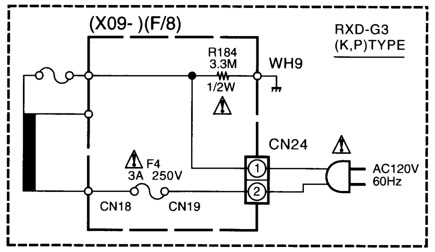

(X09-)(F/8)
(E,T,X,C)TYPE
W121
CN24
(E,T) : AC230V 50Hz
(X) : AC240V 50Hz
(C) : AC220V 50Hz


(X09-)(F/8)
(Y,M,I)TYPE
CN24
AC110-120V/AC220-240V 50/60Hz
(X09-)(G/8)
WH4
WH5
WH6
WH7
WH8
S2
220-240V
110-120V
F7 T2A L 250V
CN25 CN26
F5 T2A L 250V
CN20 CN21

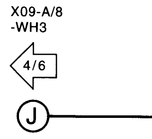
(X09-)
IC8 :TA78057S

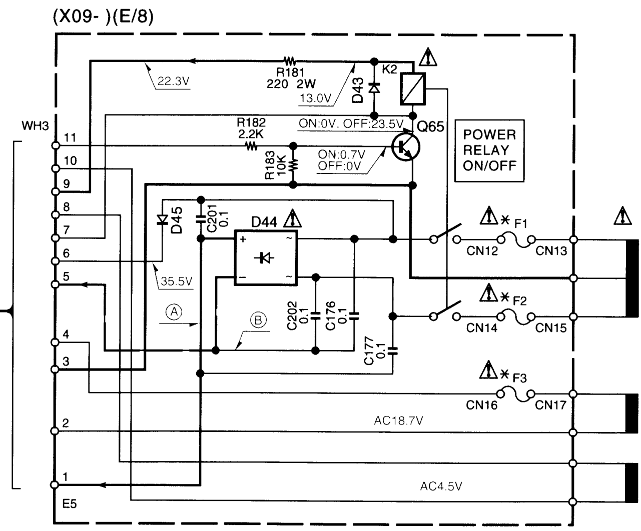
Q11,12 :2SC4137F50(V,W)
Q13,14 : ⁎
Q15,16 : ⁎
Q17,18,55,56,65 :2SC2003(L,K)
Q54,57 :2SA933S(Q,R) or 2SA1175(F,E)
Q58 :2SA945(L,K)
Q59 : ⁎

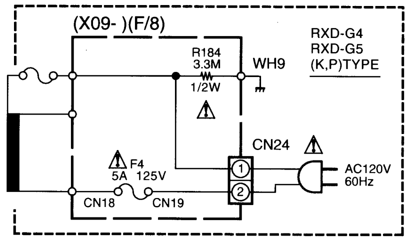
D16,23,24,43,48 :1SS131 or HSS104A
D44 :D3BA20F03 or RBV-402LFA
D45 :S5688B or 1SR139-100
D49 :MTZJ5.1(B) or UZ-5.1BSB


(X09-)(F/8)
RXD-G3 (K,P)TYPE
R184 3.3M 1/2W
WH9
F4 3A 250V
CN18 CN19
CN24
AC120V 60Hz

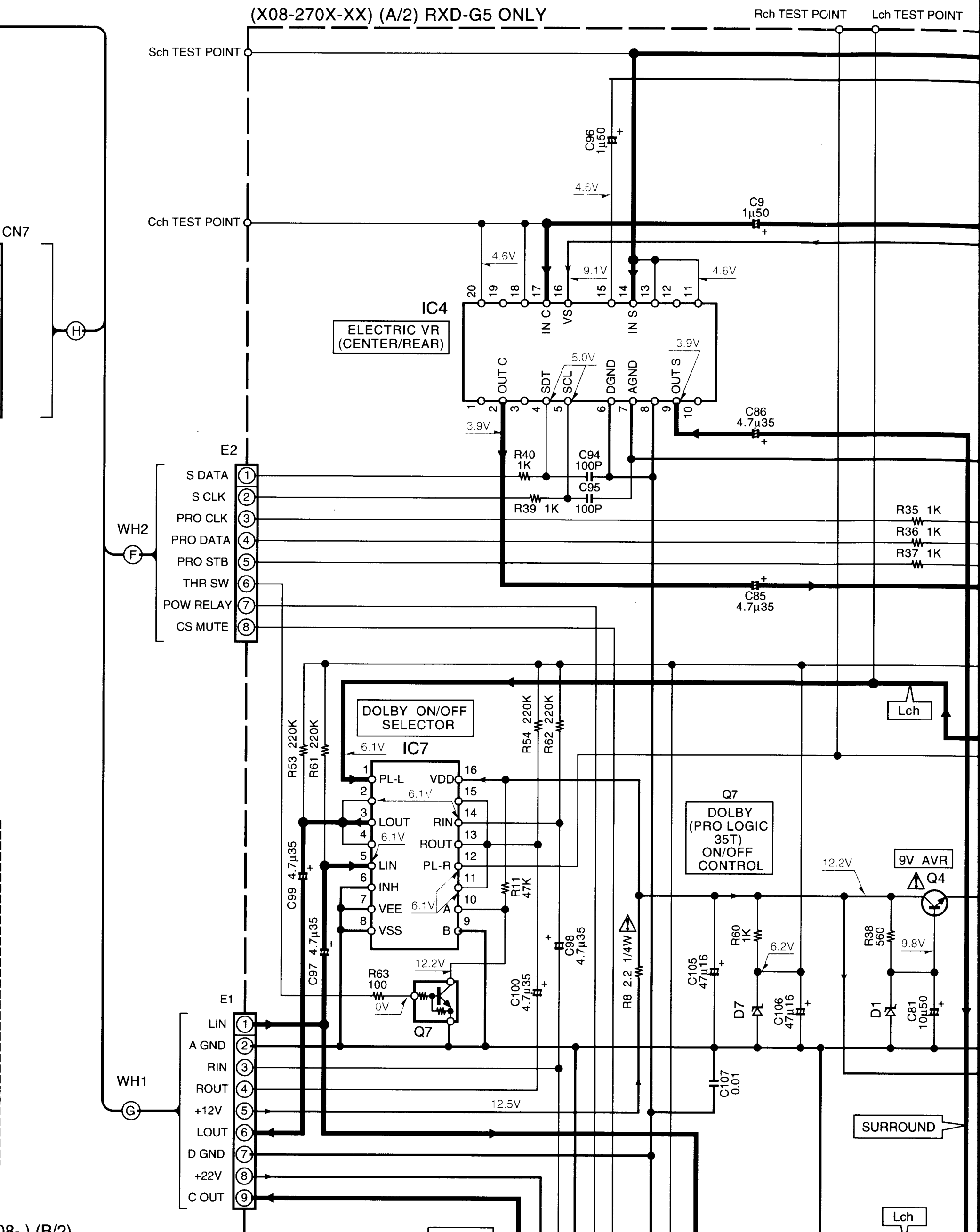
DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
PX	Y
GENERAL MARKET	M
MALAYSIA	I
CHAINA	C
AUSTRALIA	X
EUROPE	E
U.K.	T

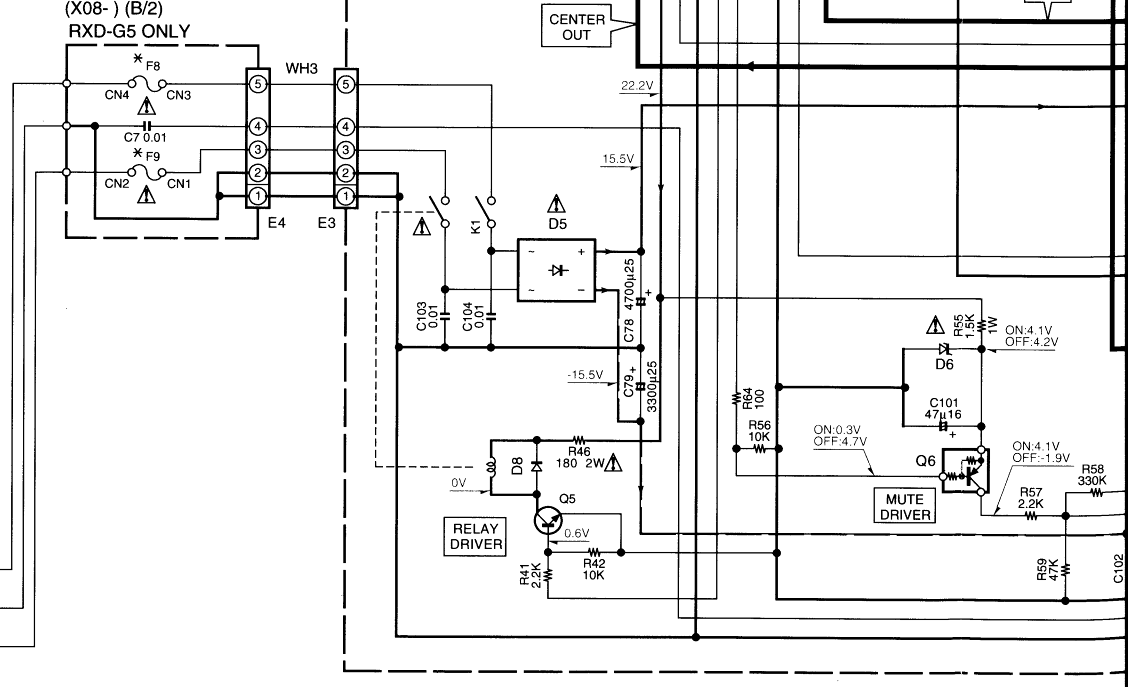

X09-A/8
-WH3
4/6
J

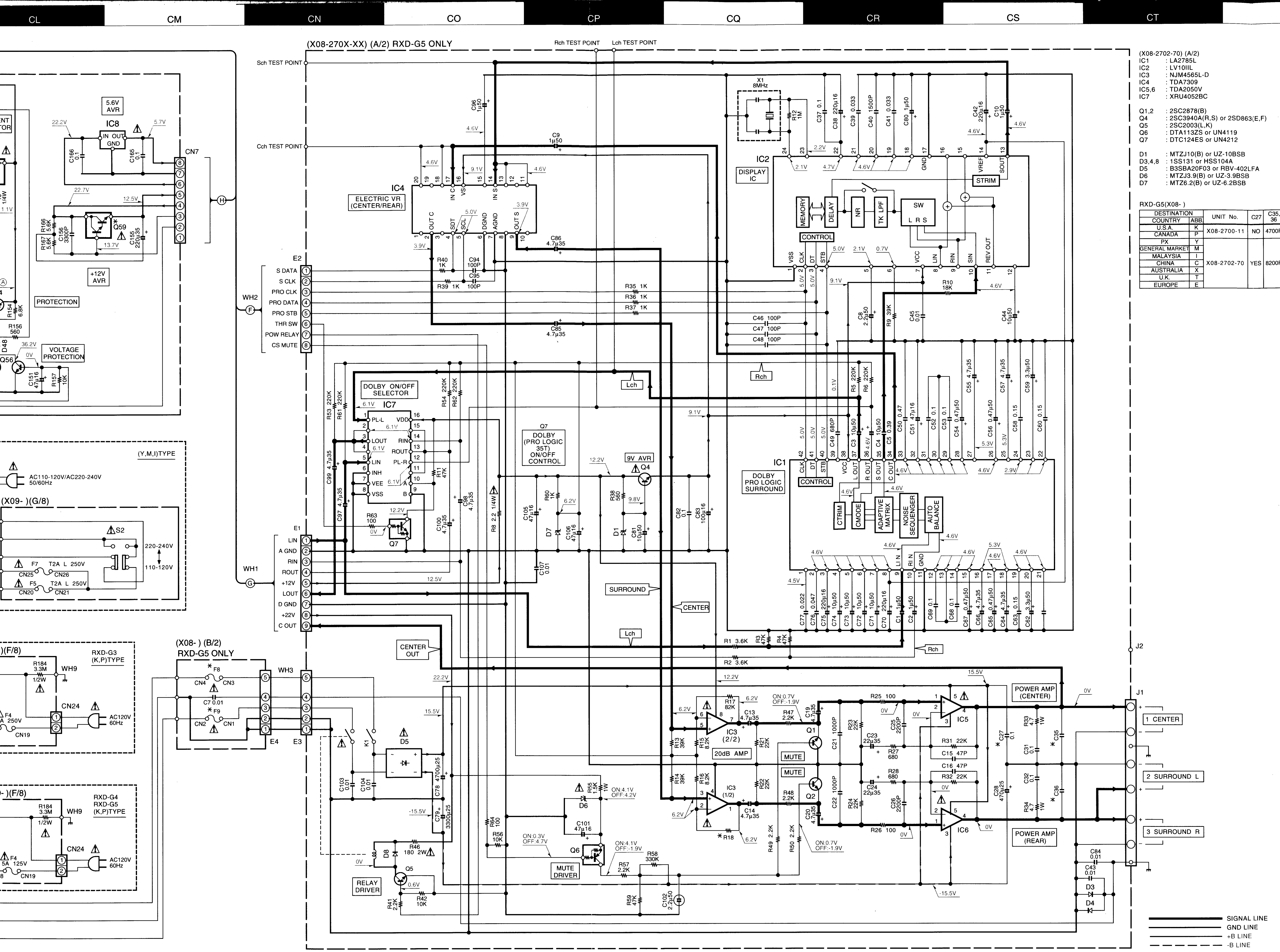

(X09-)(E/8)
WH3
R181 220 2W
K2
D43
R182 2.2K
R183 10K
Q65
ON:0V OFF:23.5V
ON:0.7V OFF:0V
POWER RELAY ON/OFF
D45
D44
F1 CN12 CN13
F2 CN14 CN15
F3 CN16 CN17
AC18.7V
AC4.5V
E5


(X09-)(F/8)
RXD-G4 RXD-G5 (K,P)TYPE
R184 3.3M 1/2W
WH9
F4 5A 125V
CN18 CN19
CN24
AC120V 60Hz

MODELS	Ⓐ	Ⓑ
RXD-G3/G31	+36.5V	-36.5V
RXD-G4/G5/G51	+42.0V	-42.0V


(X08-270X-XX) (A/2) RXD-G5 ONLY
Sch TEST POINT
Rch TEST POINT
Lch TEST POINT
Cch TEST POINT
IC4
ELECTRIC VR (CENTER/REAR)
E2
S DATA
S CLK
PRO CLK
PRO DATA
PRO STB
THR SW
POW RELAY
CS MUTE
WH2
DOLBY ON/OFF SELECTOR
IC7
Q7
DOLBY (PRO LOGIC 35T) ON/OFF CONTROL
9V AVR
Q4
E1
LIN
A GND
RIN
ROUT
+12V
LOUT
D GND
+22V
C OUT
WH1
SURROUND
Lch
CENTER OUT


(X08-) (B/2)
RXD-G5 ONLY
F8
CN4 CN3
C7 0.01
F9
CN2 CN1
E4
WH3
E3
K1
D5
D6
MUTE DRIVER
Q6
D8
RELAY DRIVER
Q5



CL
CM
CN
CO
CP
CQ
CR
CS
CT
CU
CV
(X08-270X-XX) (A/2) RXD-G5 ONLY
Rch TEST POINT
Lch TEST POINT
Sch TEST POINT
Cch TEST POINT
IC8
5.6V AVR
CN7
PROTECTION
VOLTAGE PROTECTION
+12V AVR
Q59
Q56
IC4
ELECTRIC VR (CENTER/REAR)
IC2
DISPLAY IC
X1 8MHz
MEMORY
DELAY
NR
TK LPF
SW
L R S
STRIM
CONTROL
E2
S DATA
S CLK
PRO CLK
PRO DATA
PRO STB
THR SW
POW RELAY
CS MUTE
WH2
WH1
IC7
DOLBY ON/OFF SELECTOR
Q7
DOLBY (PRO LOGIC 35T) ON/OFF CONTROL
9V AVR
Q4
IC1
DOLBY PRO LOGIC SURROUND
CTRIM
CMODE
ADAPTIVE MATRIX
NOISE SEQUENCER
AUTO BALANCE
E1
LIN
A GND
RIN
ROUT
+12V
LOUT
D GND
+22V
C OUT
SURROUND
CENTER
Lch
Rch
CENTER OUT
(Y,M,I)TYPE
AC110-120V/AC220-240V 50/60Hz
(X09-)(G/8)
S2
220-240V
110-120V
F7 T2A L 250V
F5 T2A L 250V
CN25
CN26
CN20
CN21
(X08-) (B/2) RXD-G5 ONLY
WH3
E3
E4
CN3
CN4
CN1
CN2
RXD-G3 (K,P)TYPE
RXD-G4 RXD-G5 (K,P)TYPE
WH9
CN24
AC120V 60Hz
D5
K1
RELAY DRIVER
Q5
D8
D6
Q6
MUTE DRIVER
IC3 (2/2)
IC3 (1/2)
20dB AMP
MUTE
Q1
Q2
IC5
IC6
POWER AMP (CENTER)
POWER AMP (REAR)
J1
J2
1 CENTER
2 SURROUND L
3 SURROUND R
D3
D4
SIGNAL LINE
GND LINE
+B LINE
-B LINE

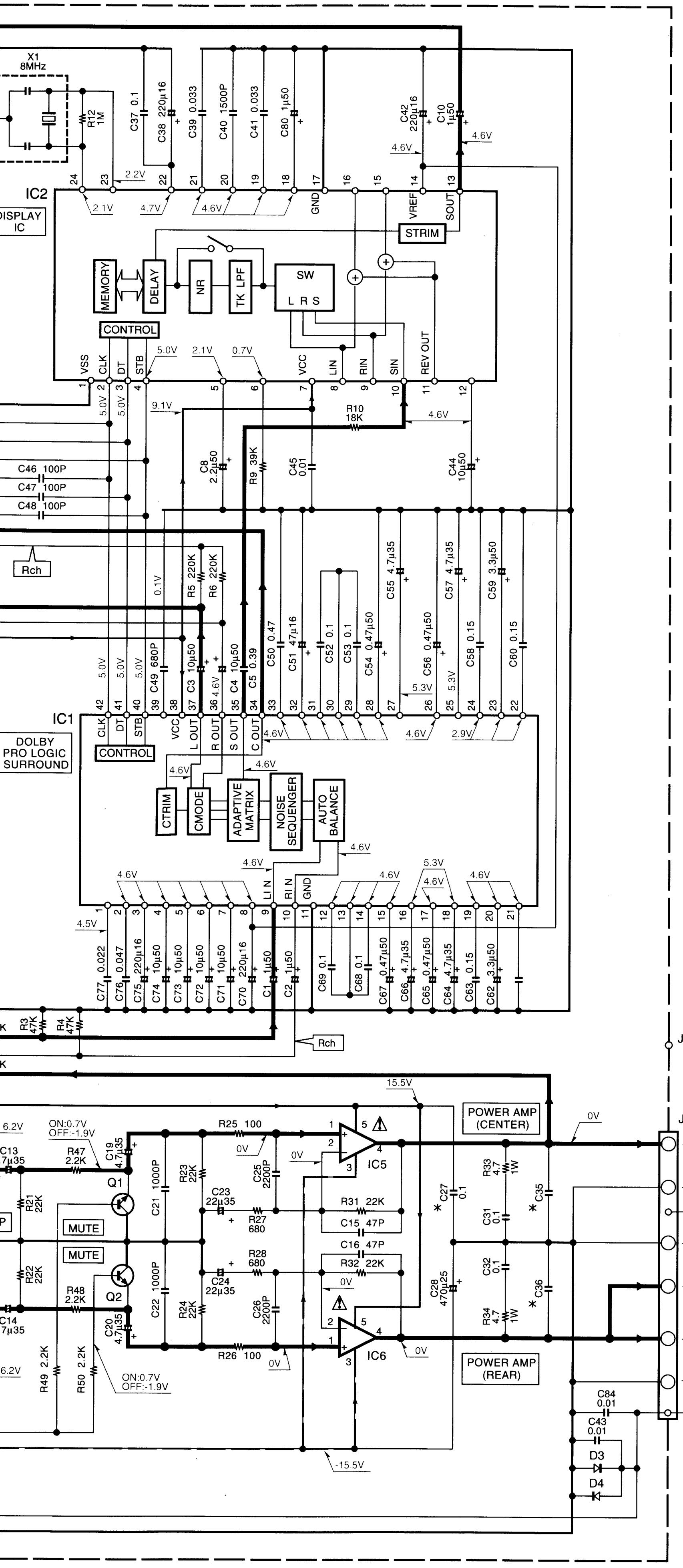
(X08-2702-70) (A/2)
IC1 : LA2785L
IC2 : LV10IIL
IC3 : NJM4565L-D
IC4 : TDA7309
IC5,6 : TDA2050V
IC7 : XRU4052BC

Q1,2 : 2SC2878(B)
Q4 : 2SC3940A(R,S) or 2SD863(E,F)
Q5 : 2SC2003(L,K)
Q6 : DTA113ZS or UN4119
Q7 : DTC124ES or UN4212

D1 : MTZJ10(B) or UZ-10BSB
D3,4,8 : 1SS131 or HSS104A
D5 : B3SBA20F03 or RBV-402LFA
D6 : MTZJ3.9(B) or UZ-3.9BSB
D7 : MTZ6.2(B) or UZ-6.2BSB

RXD-G5(X08-)

DESTINATION		UNIT No.	C27	C35, 36	R18	F8,9
COUNTRY	ABB.					
U.S.A.	K	X08-2700-11	NO	4700P	75K	4A 125V
CANADA	P					
PX	Y	X08-2702-70	YES	8200P	68K	T4A L 250V
GENERAL MARKET	M					
MALAYSIA	I					
CHINA	C					
AUSTRALIA	X					
U.K.	T					
EUROPE	E					


X1
8MHz
IC2
DISPLAY IC
MEMORY
DELAY
NR
TK LPF
SW
L R S
STRIM
CONTROL
IC1
DOLBY PRO LOGIC SURROUND
CTRIM
CMODE
ADAPTIVE MATRIX
NOISE SEQUENCER
AUTO BALANCE
Rch
MUTE
Q1
Q2
IC5
IC6
POWER AMP (CENTER)
POWER AMP (REAR)
J1
J2
1 CENTER
2 SURROUND L
3 SURROUND R
D3
D4
15.5V
-15.5V
ON:0.7V
OFF:-1.9V

━━━ SIGNAL LINE
─── GND LINE
──── +B LINE
— — — -B LINE

RXD-G3/G4/G5/G31/G51(K)(5/6)

(X08-2702-70) (A/2)
IC1 : LA2785L
IC2 : LV10IIL
IC3 : NJM4565L-D
IC4 : TDA7309
IC5,6 : TDA2050V
IC7 : XRU4052BC

Q1,2 : 2SC2878(B)
Q4 : 2SC3940A(R,S) or 2SD863(E,F)
Q5 : 2SC2003(L,K)
Q6 : DTA113ZS or UN4119
Q7 : DTC124ES or UN4212

D1 : MTZJ10(B) or UZ-10BSB
D3,4,8 : 1SS131 or HSS104A
D5 : B3SBA20F03 or RBV-402LFA
D6 : MTZJ3.9(B) or UZ-3.9BSB
D7 : MTZ6.2(B) or UZ-6.2BSB

RXD-G5(X08-)

DESTINATION		UNIT No.	C27	C35, 36	R18	F8,9
COUNTRY	ABB.					
U.S.A.	K	X08-2700-11	NO	4700P	75K	4A 125V
CANADA	P					
PX	Y	X08-2702-70	YES	8200P	68K	T4A L 250V
GENERAL MARKET	M					
MALAYSIA	I					
CHINA	C					
AUSTRALIA	X					
U.K.	T					
EUROPE	E					

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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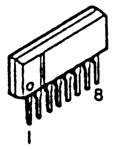
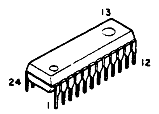
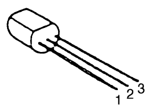
NJM4565L-D



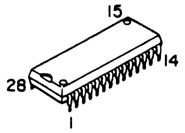
LV1011L



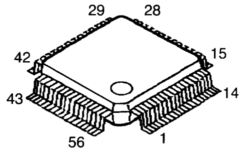
M5237L



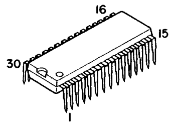
NJU3718L



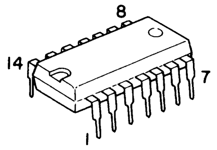
HA12182F


29
28
42
15
43
14
56
1

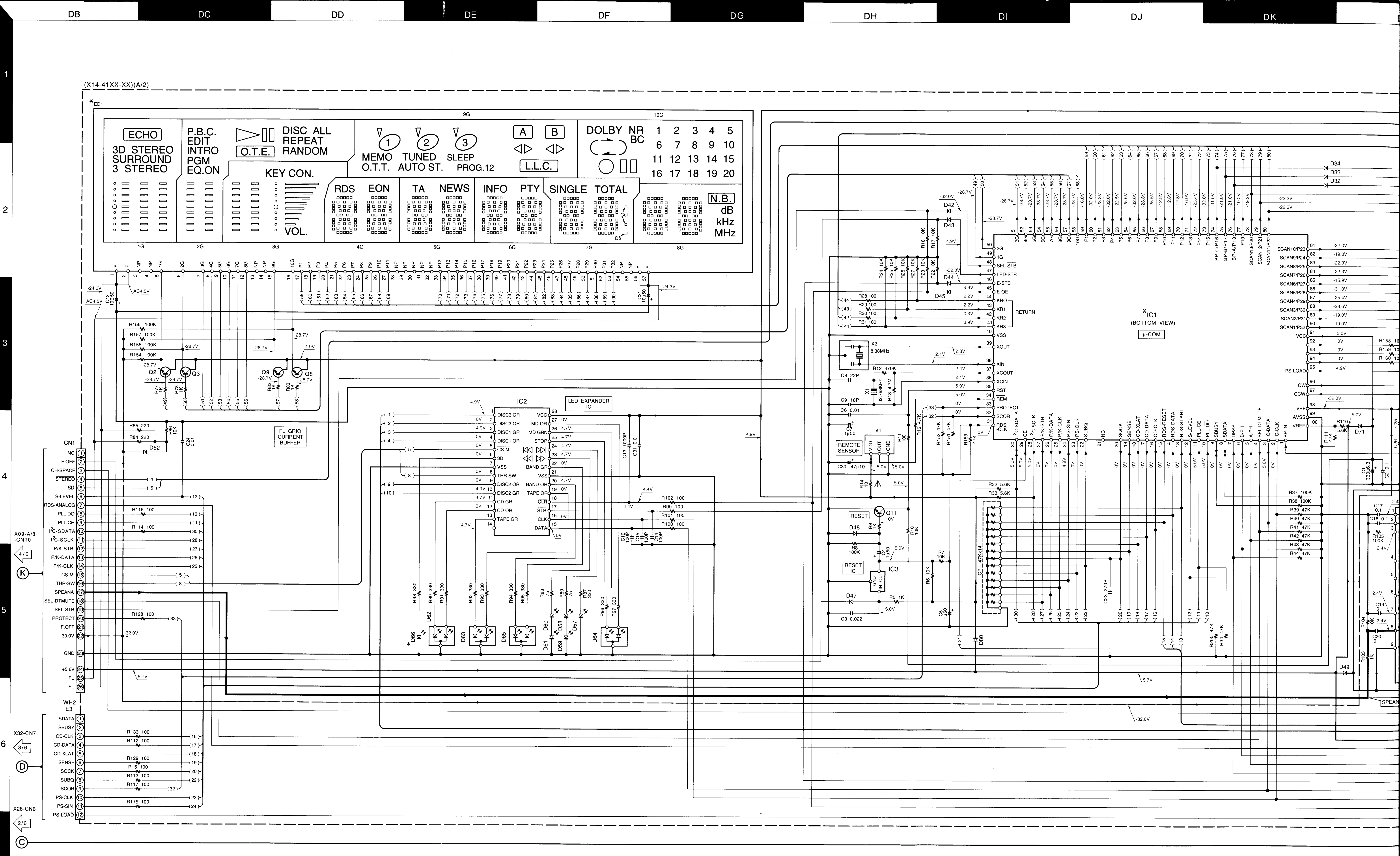
LA6537

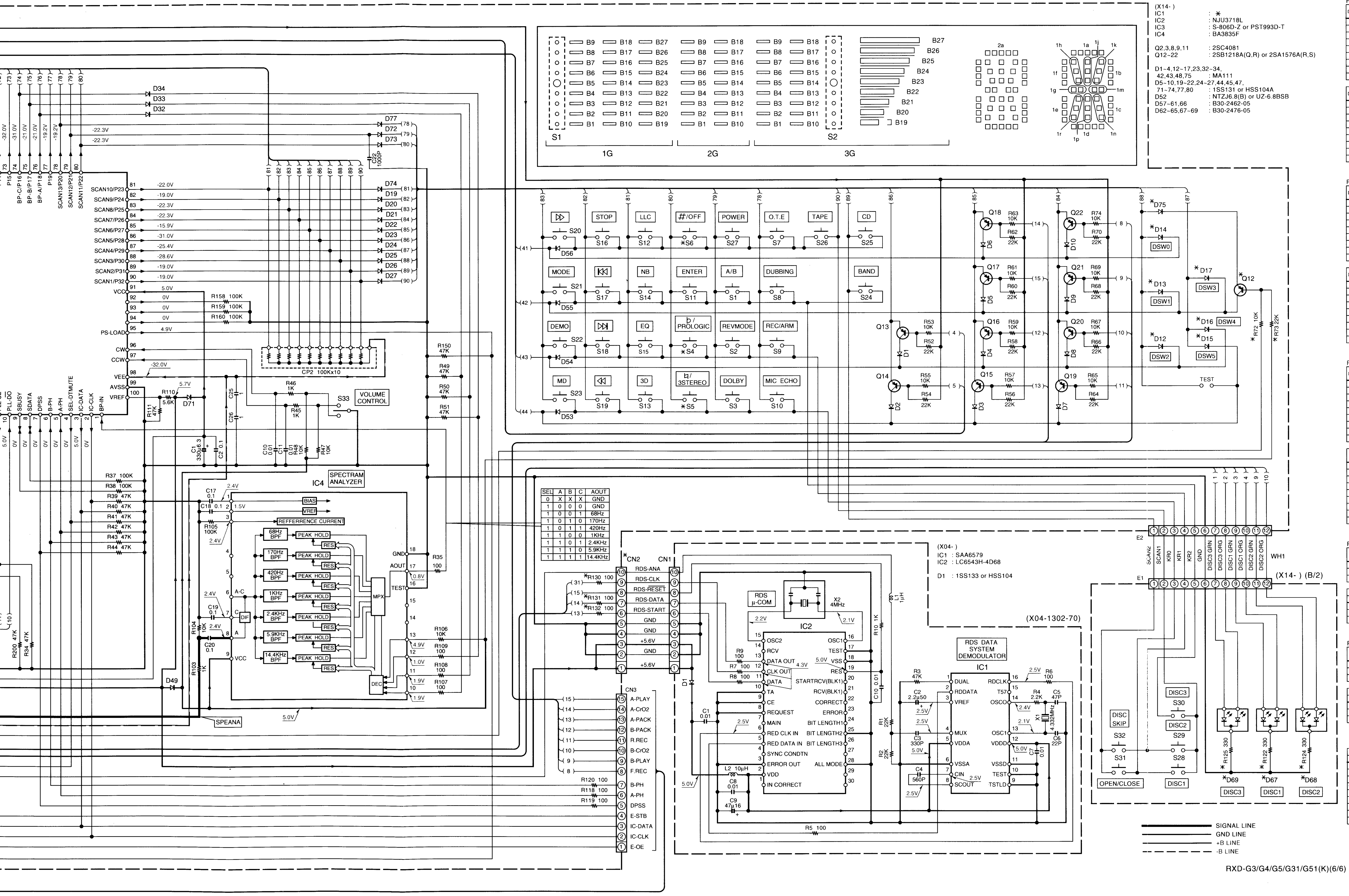


M65844P



RXD-G3/G4/G5/G31/G51
KENWOOD


DB
DC
DD
DE
DF
DG
DH
DI
DJ
DK
1
2
3
4
5
6
7
(X14-41XX-XX)(A/2)
*ED1
ECHO
3D STEREO
SURROUND
3 STEREO
P.B.C.
EDIT
INTRO
PGM
EQ.ON
O.T.E.
DISC ALL
REPEAT
RANDOM
KEY CON.
VOL.
MEMO
O.T.T.
TUNED
AUTO ST.
SLEEP
PROG.12
A
B
L.L.C.
DOLBY NR
BC
RDS
EON
TA
NEWS
INFO
PTY
SINGLE
TOTAL
N.B.
dB
kHz
MHz
1G
2G
3G
4G
5G
6G
7G
8G
9G
10G
FL GRIO CURRENT BUFFER
CN1
NC
F.OFF
CH-SPACE
STEREO
SD
S-LEVEL
RDS-ANALOG
PLL DO
PLL CE
I2C-SDATA
I2C-SCLK
P/K-STB
P/K-DATA
P/K-CLK
CS-M
THR-SW
SPEANA
SEL-DTMUTE
SEL-STB
PROTECT
F.OFF
-30.0V
GND
+5.6V
FL
FL
X09-A/8 -CN10
4/6
K
WH2
E3
SDATA
SBUSY
CD-CLK
CD-DATA
CD-XLAT
SENSE
SQCK
SUBQ
SCOR
PS-CLK
PS-SIN
PS-LOAD
X32-CN7
3/6
D
X28-CN6
2/6
C
IC2
LED EXPANDER IC
DISC3 GR
DISC3 OR
DISC1 GR
DISC1 OR
CS-M
3D
VSS
THR-SW
DISC2 OR
DISC2 GR
CD GR
CD OR
TAPE GR
VCC
MD OR
MD GRN
STOP
BAND GR
BAND OR
TAPE OR
CLR
STB
CLK
DATA
Q2
Q3
Q9
Q8
D52
*IC1
(BOTTOM VIEW)
µ-COM
RETURN
X2
8.38MHz
X1
32.768KHz
REMOTE SENSOR
A1
RESET
Q11
D48
RESET IC
IC3
D47
CP1 47KX14
SEL-STB
LED-STB
E-STB
E-OE
KRO
KR1
KR2
KR3
VSS
XOUT
XIN
XCOUT
XCIN
RST
REM
PROTECT
SCOR
RDS-CLK
I2C-SDATA
CE
I2C-SCLK
P/K-STB
P/K-DATA
P/K-CLK
PS-SIN
PS-CLK
SUBQ
NC
SQCK
SENSE
CD-XLAT
CD-DATA
CD-CLK
RDS-RESET
RDS-DATA
RDS-START
S-LEVEL
PLL-CE
PLL-DO
SBUSY
SDATA
DPSS
B-PH
A-PH
SEL-DTMUTE
IC-DATA
IC-CLK
BP-IN
SCAN10/P23
SCAN9/P24
SCAN8/P25
SCAN7/P26
SCAN6/P27
SCAN5/P28
SCAN4/P29
SCAN3/P30
SCAN2/P31
SCAN1/P32
VCC
PS-LOAD
CW
CCW
VEE
AVSS
VREF
BP-C/P16
BP-B/P17
BP-A/P18
SCAN13/P20
SCAN12/P21
SCAN11/P22
D34
D33
D32
D42
D43
D44
D45
D49
D71
D60
D61
D58
D59
D57
D62
D63
D64
D65
D66
SPEAN


S1
1G
2G
3G
S2
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27
2a
1h 1a 1j 1k 1f 1b 1g 1m 1e 1c 1r 1p 1d 1n
SCAN10/P23 SCAN9/P24 SCAN8/P25 SCAN7/P26 SCAN6/P27 SCAN5/P28 SCAN4/P29 SCAN3/P30 SCAN2/P31 SCAN1/P32
VCC PS-LOAD CW CCW VEE AVSS VREF
D32 D33 D34 D77 D72 D73 D74 D19 D20 D21 D22 D23 D24 D25 D26 D27
C22 1000P
R158 100K R159 100K R160 100K
CP2 100Kx10
R150 47K R49 47K R50 47K R51 47K
R110 5.6K D71 R111 47K
C25 C26 R46 1K R45 1K
S33 VOLUME CONTROL
C1 330μ6.3 C2 0.1 C10 0.01 C11 R48 10K R47 10K
IC4 SPECTRAM ANALYZER
C17 0.1 C18 0.1 R105 100K
BIAS VREF REFFERRENCE CURRENT
68Hz BPF 170Hz BPF 420Hz BPF 1KHz BPF 2.4KHz BPF 5.9KHz BPF 14.4KHz BPF
PEAK HOLD RES
MPX DIF DEC
C19 0.1 C20 0.1 R104 10K R103 1K
A-C VCC GND AOUT TEST
R35 100 R106 10K R109 100 R108 100 R107 100
D49 SPEANA
R37 100K R38 100K R39 47K R40 47K R41 47K R42 47K R43 47K R44 47K
R200 47K R34 47K
S20 S16 S12 S6 S27 S7 S26 S25
STOP LLC #/OFF POWER O.T.E TAPE CD
D56 D55 D54 D53
MODE NB ENTER A/B DUBBING BAND
S21 S17 S14 S11 S1 S8 S24
DEMO EQ b/PROLOGIC REVMODE REC/ARM
S22 S18 S15 S4 S2 S9
MD 3D #/3STEREO DOLBY MIC ECHO
S23 S19 S13 S5 S3 S10
Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22
R53 10K R52 22K R55 10K R54 22K R57 10K R56 22K R59 10K R58 22K R61 10K R60 22K R63 10K R62 22K R65 10K R64 22K R67 10K R66 22K R69 10K R68 22K R74 10K R70 22K
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10
D75 D14 DSW0 D17 D13 DSW3 DSW1 Q12 D16 DSW4 D15 D12 DSW2 DSW5 R72 10K R73 22K
TEST
E2 E1 WH1 (X14-) (B/2)
SCAN2 SCAN1 KR0 KR1 KR2 GND DISC3 GRN DISC3 ORG DISC1 GRN DISC1 ORG DISC2 GRN DISC2 ORG
DISC SKIP S32 S31 OPEN/CLOSE DISC3 S30 DISC2 S29 S28 DISC1
R125 330 R122 330 R124 330 D69 D67 D68 DISC3 DISC1 DISC2
CN2 CN1 RDS-ANA RDS-CLK RDS-RESET RDS-DATA RDS-START GND GND +5.6V GND +5.6V
R130 100 R131 100 R132 100
CN3 A-PLAY A-CrO2 A-PACK B-PACK R.REC B-CrO2 B-PLAY F.REC B-PH A-PH DPSS E-STB IC-DATA IC-CLK E-OE
R120 100 R118 100 R119 100
RDS μ-COM IC2 X2 4MHz
OSC2 RCV DATA OUT CLK OUT DATA TA CE REQUEST MAIN RED CLK IN RED DATA IN SYNC CONDTN ERROR OUT VDD IN CORRECT
OSC1 TEST VSS RES STARTRCV(BLK1) RCV(BLK1) CORRECT ERROR BIT LENGTH1 BIT LENGTH2 BIT LENGTH3 ALL MODE
R9 100 R7 100 R8 100 C1 0.01 L2 10μH C8 0.01 C9 47μ16 R10 1K C10 0.01 R5 100
RDS DATA SYSTEM DEMODULATOR IC1
DUAL RDDATA VREF MUX VDDA VSSA CIN SCOUT RDCLK T57 OSCO OSCI VDDD VSSD TEST TSTLD
R3 47K C2 2.2μ50 C3 330P C4 560P R1 22K R2 22K R4 2.2K R6 100 C5 47P X1 4.332MHz C6 22P C7
(X04-1302-70)
SIGNAL LINE
GND LINE
+B LINE
-B LINE

(X14-)
IC1 : *
IC2 : NJU3718L
IC3 : S-806D-Z or PST993D-T
IC4 : BA3835F

Q2,3,8,9,11 : 2SC4081
Q12~22 : 2SB1218A(Q,R) or 2SA1576A(R,S)

D1~4,12~17,23,32~34, 42,43,48,75 : MA111
D5~10,19~22,24~27,44,45,47, 71~74,77,80 : 1SS131 or HSS104A
D52 : NTZJ6.8(B) or UZ-6.8BSB
D57~61,66 : B30-2462-05
D62~65,67~69 : B30-2476-05

SEL	A	B	C	AOUT
0	X	X	X	GND
1	0	0	0	GND
1	0	0	1	68Hz
1	0	1	0	170Hz
1	0	1	1	420Hz
1	1	0	0	1KHz
1	1	0	1	2.4KHz
1	1	1	0	5.9KHz
1	1	1	1	14.4KHz

(X04-)
IC1 : SAA6579
IC2 : LC6543H-4D68

D1 : 1SS133 or HSS104

RXD-G3/G4/G5/G31/G51(K)(6/6)

RXD-G3 (X14-410X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15~17, 67~69
K	0-11	M38198MC-069-FP	NO	NO	NO	NO	NO
P							
Y	0-21		YES			YES	
M							
I							
C							
X	0-71		NO	NO	YES	YES	
T	0-51			YES		NO	
E	2-71				NO	YES	

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124,125, 130~132
K	0-11	NO	NO	BJ428GK	NO	NO	NO
P							
Y	0-21	YES				YES	
M							
I							
C							
X	0-71	NO				NO	
T	0-51						
E	2-71						

RXD-G4 (X14-411X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15	D16,17 67~69
K	0-11	M38198MC-069-FP	NO	NO	NO	NO	NO	YES
P								
Y	0-21		YES			YES		
M								
I								
C								
X	0-71		NO		YES			
T	0-51	M38199MF-051FP		YES		NO		
E	2-71				NO	YES		

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124, 125	R130~ 132
K	0-11	NO	NO	FIP10FMW6R	NO	NO	YES	NO
P								
Y	0-21	YES				YES		
M								
I								
C								
X	0-71	NO				NO		
T	0-51				YES			YES
E	2-71							

RXD-G5 (X14-411X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15	D16,17 67~69
K	0-12	M38198MC-069-FP	NO	NO	NO	NO	NO	YES
P								
Y	0-22		YES			YES		
M								
I								
C								
X	0-72		NO		YES			
T	0-52	M38199MF-051FP		YES		NO		
E	2-72				NO	YES		

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124, 125	R130~ 132
K	0-12	NO	YES	FIP10FMW6R	NO	NO	YES	NO
P								
Y	0-22	YES				YES		
M								
I								
C								
X	0-72	NO				NO		
T	0-52				YES			YES
E	2-72							

RXD-G31 (X14-4100-22)

DESTINATION	UNIT No.	IC1	Q12	D12,13,15, 16,67~69	D14,17, 75
M	0-22	M38198MC-069-FP	YES	NO	YES
I					
C					

DESTINATION ABB.	UNIT No.	S4~6	ED1	CN2	R72, 73	R122,124,125, 130~132
M	0-22	NO	BJ428GK	NO	YES	NO
I						
C						

RXD-G51 (X14-4110-23)

DESTINATION	UNIT No.	IC1	Q12	D12,13, 16	D14,15,17, 67~69,75
M	0-23	M38198MC-069-FP	YES	NO	YES
I					
C					

DESTINATION ABB.	UNIT No.	S4~6	ED1	CN2	R72,73,122, 124,125	R130~ 132
M	0-23	NO	FIP10FMW6R	NO	YES	NO
I						
C						

DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
PX	Y
GENERAL MARKET	M
MALAYSIA	I
CHINA	C
AUSTRALIA	X
U.K.	T
EUROPE	E

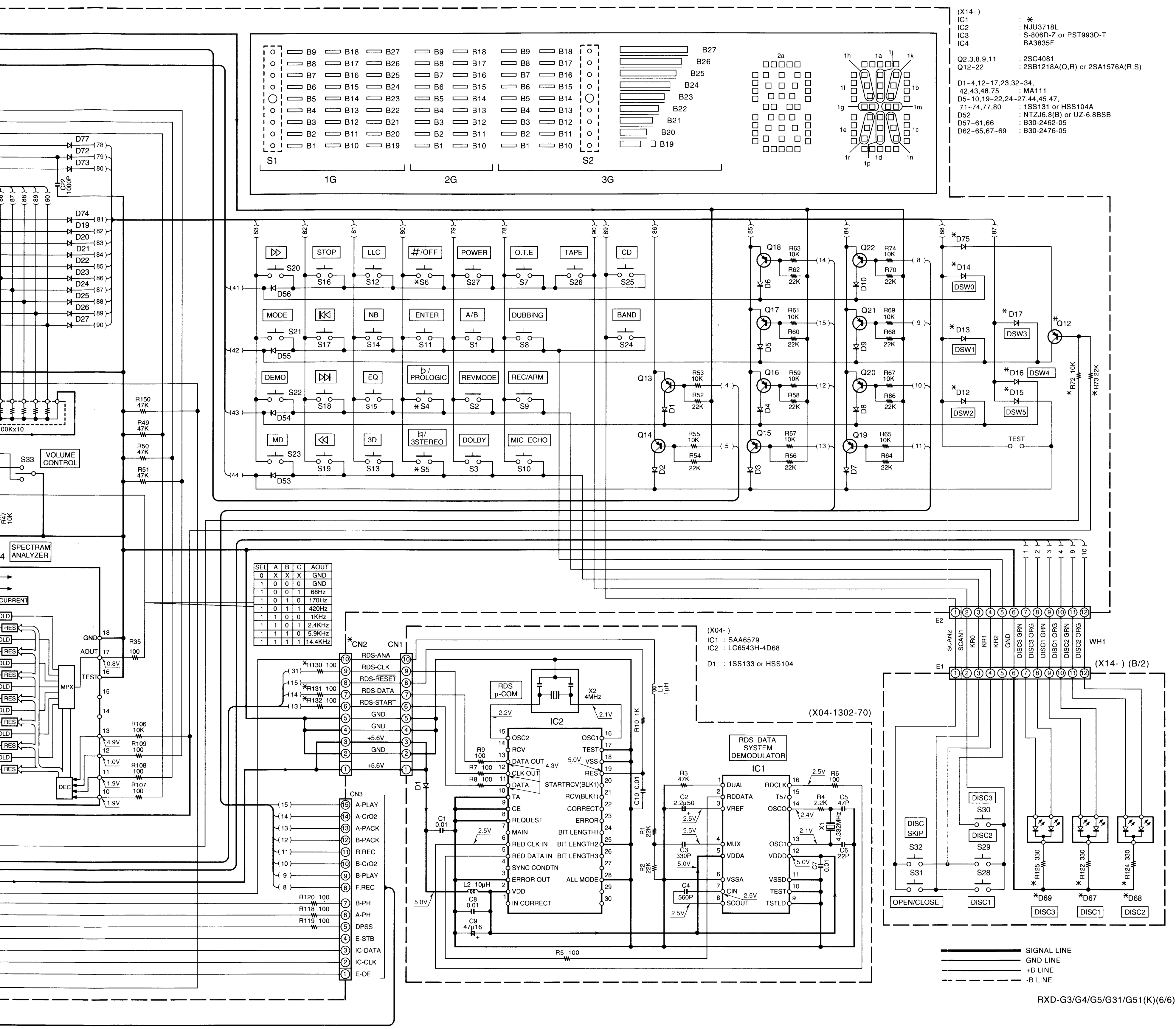
CAUTION: *F components o (refer to parts For continued with same typ electric shock, shall be carrie from the supp the customer.*

The DC voltag impedance t measurement instruments us

RXD-G

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



S1
S2
1G
2G
3G
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27
2a
1h 1a 1j 1k 1f 1b 1g 1m 1e 1c 1r 1d 1n 1p
D77 D72 D73 D74 D19 D20 D21 D22 D23 D24 D25 D26 D27
C22 1000P
STOP
LLC
#/OFF
POWER
O.T.E
TAPE
CD
S20 S16 S12 *S6 S27 S7 S26 S25
D56
MODE
NB
ENTER
A/B
DUBBING
BAND
S21 S17 S14 S11 S1 S8 S24
D55
DEMO
EQ
PROLOGIC
REVMODE
REC/ARM
S22 S18 S15 *S4 S2 S9
D54
MD
3D
3STEREO
DOLBY
MIC ECHO
S23 S19 S13 *S5 S3 S10
D53
Q13 R53 10K R52 22K D1
Q14 R55 10K R54 22K D2
Q18 R63 10K R62 22K D6
Q17 R61 10K R60 22K D5
Q16 R59 10K R58 22K D4
Q15 R57 10K R56 22K D3
Q22 R74 10K R70 22K D10
Q21 R69 10K R68 22K D9
Q20 R67 10K R66 22K D8
Q19 R65 10K R64 22K D7
*D75 *D14 DSW0
*D17 DSW3
*D13 DSW1
*Q12
*D16 DSW4
*D12 *D15 DSW2 DSW5
*R72 10K
*R73 22K
TEST
R150 47K
R49 47K
R50 47K
R51 47K
100Kx10
S33
VOLUME CONTROL
R47 10K
SPECTRAM ANALYZER
CURRENT
GND
AOUT
TEST
MPX
DEC
R35 100
R106 10K
R109 100
R108 100
R107 100
0.8V
4.9V
1.0V
1.9V
1.9V
*CN2
CN1
*R130 100
*R131 100
*R132 100
RDS-ANA
RDS-CLK
RDS-RESET
RDS-DATA
RDS-START
GND
+5.6V
(X04-)
IC1 : SAA6579
IC2 : LC6543H-4D68
D1 : 1SS133 or HSS104
(X04-1302-70)
RDS µ-COM
IC2
X2 4MHz
2.2V
2.1V
R10 1K
L1 1µH
OSC2 RCV DATA OUT CLK OUT DATA TA CE REQUEST MAIN RED CLK IN RED DATA IN SYNC CONDTN ERROR OUT VDD IN CORRECT
OSC1 TEST VSS RES START RCV(BLK1) RCV(BLK1) CORRECT ERROR BIT LENGTH1 BIT LENGTH2 BIT LENGTH3 ALL MODE
R9 100
R7 100
R8 100
4.3V
5.0V
C1 0.01
C8 0.01
C9 47µ16
L2 10µH
C10 0.01
D1
5.0V
R5 100
RDS DATA SYSTEM DEMODULATOR
IC1
DUAL RDDATA VREF MUX VDDA VSSA CIN SCOUT
RDCLK TS7 OSCO OSCI VDDD VSSD TEST TSTLD
R3 47K
C2 2.2µ50
C3 330P
C4 560P
R1 22K
R2 22K
R4 2.2K
R6 100
C5 47P
C6 22P
C7 0.01
X1 4.332MHz
2.5V 2.4V 2.1V 5.0V
CN3
A-PLAY A-CrO2 A-PACK B-PACK R.REC B-CrO2 B-PLAY F.REC B-PH A-PH DPSS E-STB IC-DATA IC-CLK E-OE
R120 100
R118 100
R119 100
E2
E1
SCAN2 SCAN1 KR0 KR1 KR2 GND DISC3 GRN DISC3 ORG DISC1 GRN DISC1 ORG DISC2 GRN DISC2 ORG
WH1
(X14-) (B/2)
DISC SKIP
S32
S31
OPEN/CLOSE
DISC3
S30
DISC2
S29
S28
DISC1
R125 330
R122 330
R124 330
*D69 *D67 *D68
DISC3 DISC1 DISC2
SIGNAL LINE
GND LINE
+B LINE
-B LINE

SEL	A	B	C	AOUT
0	X	X	X	GND
1	0	0	0	GND
1	0	0	1	68Hz
1	0	1	0	170Hz
1	0	1	1	420Hz
1	1	0	0	1KHz
1	1	0	1	2.4KHz
1	1	1	0	5.9KHz
1	1	1	1	14.4KHz

(X14-)
IC1 : ✻
IC2 : NJU3718L
IC3 : S-806D-Z or PST993D-T
IC4 : BA3835F

Q2,3,8,9,11 : 2SC4081
Q12~22 : 2SB1218A(Q,R) or 2SA1576A(R,S)

D1~4,12~17,23,32~34, 42,43,48,75 : MA111
D5~10,19~22,24~27,44,45,47, 71~74,77,80 : 1SS131 or HSS104A
D52 : NTZJ6.8(B) or UZ-6.8BSB
D57~61,66 : B30-2462-05
D62~65,67~69 : B30-2476-05

RXD-G3/G4/G5/G31/G51(K)(6/6)

RXD-G3 (X14-410X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15~17, 67~69
K	0-11	M38198MC-069-FP	NO	NO	NO	NO	NO
P							
Y	0-21		YES			YES	
M							
I							
C							
X	0-71		NO	NO	YES	YES	
T	0-51			YES		NO	
E	2-71				NO	YES	

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124,125, 130~132
K	0-11	NO	NO	BJ428GK	NO	NO	NO
P							
Y	0-21	YES				YES	
M							
I							
C							
X	0-71	NO				NO	
T	0-51						
E	2-71						

RXD-G4 (X14-411X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15	D16,17 67~69
K	0-11	M38198MC-069-FP	NO	NO	NO	NO	NO	YES
P								
Y	0-21		YES			YES		
M								
I								
C								
X	0-71		NO		YES			
T	0-51	M38199MF-051FP		YES		NO		
E	2-71				NO	YES		

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124, 125	R130~ 132
K	0-11	NO	NO	FIP10FMW6R	NO	NO	YES	NO
P								
Y	0-21	YES				YES		
M								
I								
C								
X	0-71	NO				NO		
T	0-51				YES			YES
E	2-71							

RXD-G5 (X14-411X-XX)

DESTINATION	UNIT No.	IC1	Q12	D12	D13	D14	D15	D16,17 67~69
K	0-12	M38198MC-069-FP	NO	NO	NO	NO	NO	YES
P								
Y	0-22		YES			YES		
M								
I								
C								
X	0-72		NO		YES			
T	0-52	M38199MF-051FP		YES		NO		
E	2-72				NO	YES		

DESTINATION	UNIT No.	D75	S4~6	ED1	CN2	R72, 73	R122,124, 125	R130~ 132
K	0-12	NO	YES	FIP10FMW6R	NO	NO	YES	NO
P								
Y	0-22	YES				YES		
M								
I								
C								
X	0-72	NO				NO		
T	0-52				YES			YES
E	2-72							

RXD-G31 (X14-4100-22)

DESTINATION	UNIT No.	IC1	Q12	D12,13,15, 16,67~69	D14,17, 75
M	0-22	M38198MC-069-FP	YES	NO	YES
I					
C					

DESTINATION ABB.	UNIT No.	S4~6	ED1	CN2	R72, 73	R122,124,125, 130~132
M	0-22	NO	BJ428GK	NO	YES	NO
I						
C						

RXD-G51 (X14-4110-23)

DESTINATION	UNIT No.	IC1	Q12	D12,13, 16	D14,15,17, 67~69,75
M	0-23	M38198MC-069-FP	YES	NO	YES
I					
C					

DESTINATION ABB.	UNIT No.	S4~6	ED1	CN2	R72,73,122, 124,125	R130~ 132
M	0-23	NO	FIP10FMW6R	NO	YES	NO
I						
C						

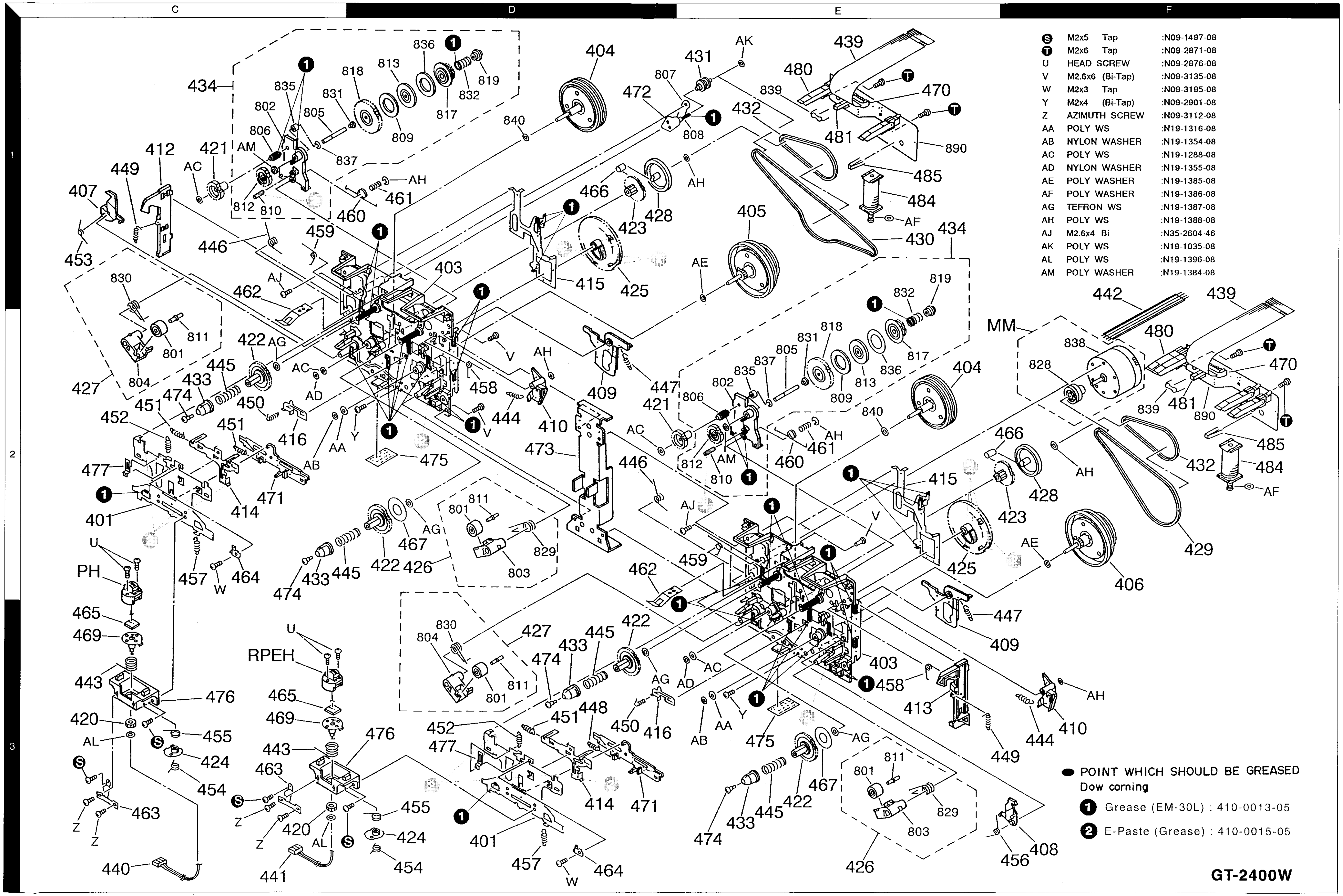
DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
PX	Y
GENERAL MARKET	M
MALAYSIA	I
CHINA	C
AUSTRALIA	X
U.K.	T
EUROPE	E

Y39-2300-00

RXD-G3/G4/G5/G31/G51

KENWOOD

EXPLODED VIEW (CASSETTE DECK MECHANISM)


C
D
E
F
1
2
3
836
818
813
819
434
835
831
832
802
805
817
809
806
AM
837
421
AC
412
449
407
812
810
460
461
AH
446
459
453
830
811
801
427
804
AJ
462
422
AG
445
433
474
450
451
452
416
AB
AA
Y
477
414
471
401
U
PH
457
W
464
465
469
443
476
420
AL
455
424
454
463
Z
440
RPEH
441
404
840
472
431
807
808
AK
432
439
480
839
470
481
890
485
484
AF
430
466
423
428
405
403
415
425
AE
409
447
V
458
444
410
473
475
467
426
803
829
MM
838
828
442
429
406
413
408
456
448

Ⓢ	M2x5 Tap	:N09-1497-08
Ⓣ	M2x6 Tap	:N09-2871-08
U	HEAD SCREW	:N09-2876-08
V	M2.6x6 (Bi-Tap)	:N09-3135-08
W	M2x3 Tap	:N09-3195-08
Y	M2x4 (Bi-Tap)	:N09-2901-08
Z	AZIMUTH SCREW	:N09-3112-08
AA	POLY WS	:N19-1316-08
AB	NYLON WASHER	:N19-1354-08
AC	POLY WS	:N19-1288-08
AD	NYLON WASHER	:N19-1355-08
AE	POLY WASHER	:N19-1385-08
AF	POLY WASHER	:N19-1386-08
AG	TEFRON WS	:N19-1387-08
AH	POLY WS	:N19-1388-08
AJ	M2.6x4 Bi	:N35-2604-46
AK	POLY WS	:N19-1035-08
AL	POLY WS	:N19-1396-08
AM	POLY WASHER	:N19-1384-08

● POINT WHICH SHOULD BE GREASED

Dow corning

❶ Grease (EM-30L) : 410-0013-05

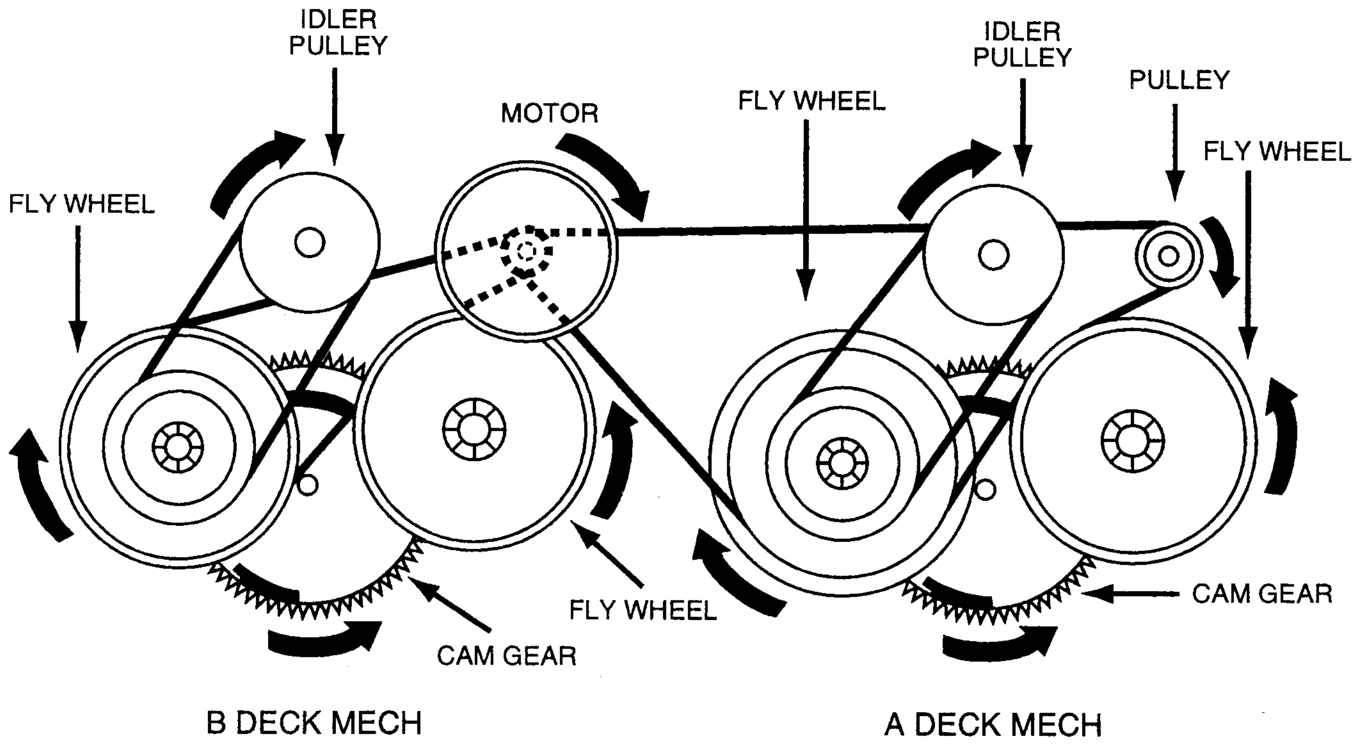
❷ E-Paste (Grease) : 410-0015-05

GT-2400W

Parts with the exploded numbers larger than 700 are not supplied.

CASSETTE MECHANISM DESCRIPTION

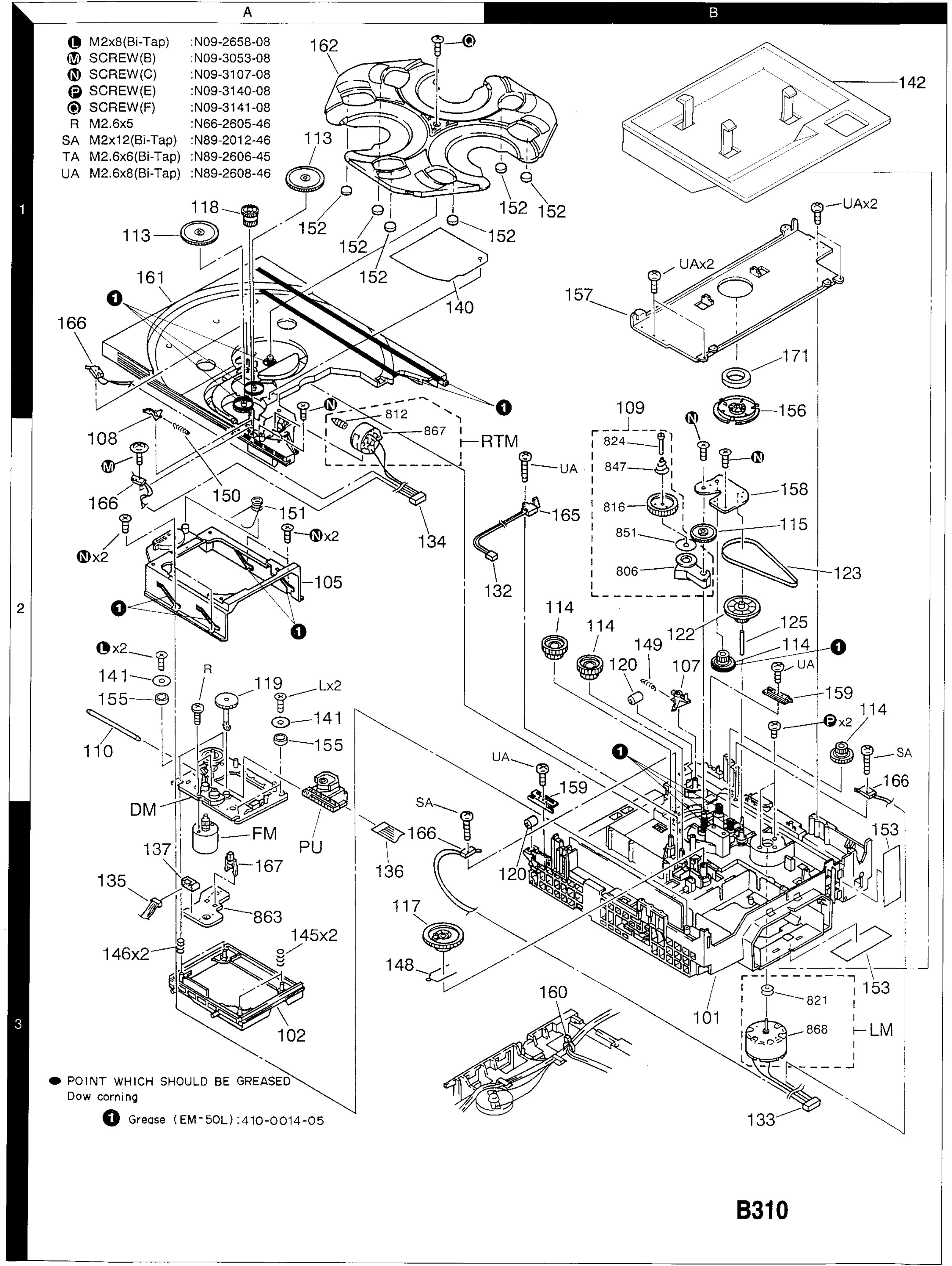
How to drive the double cassette deck with one motor


IDLER PULLEY
IDLER PULLEY
MOTOR
FLY WHEEL
PULLEY
FLY WHEEL
FLY WHEEL
FLY WHEEL
CAM GEAR
CAM GEAR
B DECK MECH
A DECK MECH

REAR VIEW

ONE MOTOR RVS MECH (GT-2400W)

EXPLODED VIEW (CD MECHANISM)


A
B
1
2
3
162
142
113
118
113
152
152
152
152
152
152
140
161
166
157
UAx2
UAx2
171
156
109
824
847
816
851
806
158
115
123
812
867
RTM
UA
108
166
150
151
Ⓝx2
Ⓝx2
134
165
132
105
114
114
149
122
125
114
120
107
UA
159
Ⓟx2
114
SA
166
Ⓛx2
141
155
110
R
119
Lx2
141
155
UA
159
DM
FM
PU
SA
166
136
137
167
135
863
117
120
153
145x2
146x2
148
102
160
101
153
821
868
LM
133
B310

Ⓛ	M2x8(Bi-Tap)	:N09-2658-08
Ⓜ	SCREW(B)	:N09-3053-08
Ⓝ	SCREW(C)	:N09-3107-08
Ⓟ	SCREW(E)	:N09-3140-08
Ⓠ	SCREW(F)	:N09-3141-08
R	M2.6x5	:N66-2605-46
SA	M2x12(Bi-Tap)	:N89-2012-46
TA	M2.6x6(Bi-Tap)	:N89-2606-45
UA	M2.6x8(Bi-Tap)	:N89-2608-46

● POINT WHICH SHOULD BE GREASED
Dow corning
❶ Grease (EM-50L) :410-0014-05

Parts with the exploded numbers larger than 700 are not supplied.

∗ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-G3						
601	1H	∗	A01-3281-11	METALLIC CABINET		
603	2G	∗	A21-1886-12	DRESSING PANEL		
604	2G	∗	A29-0808-12	PANEL (TRAY)		
605	3G	∗	A53-1912-12	CASSETTE HOLDER(A MECHA)		
606	3G	∗	A53-1913-12	CASSETTE HOLDER(B MECHA)		
607	2H	∗	A60-0819-11	PANEL		
608	1G	∗	A70-1053-05	REMOTE CONTROLLER ASSY		
609	1G	∗	A09-0345-08	BATTERY COVER		
614	2G	∗	B10-2177-12	FRONT GLASS		
615	3G	∗	B10-2178-23	FRONT GLASS (LID-A)		
616	3G	∗	B10-2179-13	FRONT GLASS (LID-B)		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-		∗	B46-0307-23	WARRANTY CARD	KY	
-			B46-0310-03	WARRANTY CARD	TE	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		∗	B58-0965-13	CAUTION CARD	XT	
-		∗	B58-0966-13	CAUTION CARD	ME	
-		∗	B58-0967-03	CAUTION CARD	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2573-00	INSTRUCTION MANUAL(ENGLISH)	KP	
-		∗	B60-2574-00	INSTRUCTION MANUAL(ENGLISH)	YMXT	
-		∗	B60-2575-00	INSTRUCTION MANUAL(FRENCH)	P	
-		∗	B60-2576-00	INSTRUCTION MANUAL(FRENCH)	E	
-		∗	B60-2577-00	INSTRUCTION MANUAL(GERMAN)	E	
-		∗	B60-2578-00	INSTRUCTION MANUAL(DUTCH)	E	
-		∗	B60-2579-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		∗	B60-2580-00	INSTRUCTION MANUAL(SPANISH)	ME	
-		∗	B60-2581-00	INSTRUCTION MANUAL(TAIWAN)	M	
-		∗	B60-2647-00	INSTRUCTION MANUAL(CHINESE)	M	
620	3H	∗	D10-3607-04	LEVER		
621	3H		D39-0316-05	DAMPER		
⚠ 626	1G		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 627	1J		E30-2592-15	AC POWER CORD	ME	
⚠ 627	1J		E30-2605-05	AC POWER CORD	Y	
⚠ 627	1J		E30-2650-05	AC POWER CORD	KP	
⚠ 627	1J		E30-2717-05	AC POWER CORD	X	
⚠ 627	1J	∗	E30-2829-05	AC POWER CORD	T	
628	2H	∗	E35-1297-05	FLAT CABLE		
635	3G	∗	G01-3840-14	TORSION COIL SPRING(A MECHA)		
636	3G	∗	G01-3841-14	TORSION COIL SPRING(B MECHA)		
-		∗	H10-7155-22	POLYSTYRENE FOAMED FIXTURE		
-		∗	H10-7156-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	KPYMXE	
-			H25-0644-04	PROTECTION BAG	T	
-			H25-1509-04	PROTECTION BAG	M	
-			H25-1536-04	PROTECTION BAG	KPYXTE	
-		∗	H50-1816-04	ITEM CARTON CASE	KPYX	
-		∗	H50-1817-04	ITEM CARTON CASE	M	

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

∗ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		∗	H50-1820-04	ITEM CARTON CASE	TE	
642	1J		J19-2808-05	HOLDER	M	
⚠ 649	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
653	3G,3H		K29-6016-14	KNOB (EJECT)		
654	2G	∗	K29-6269-04	KNOB (CD-O/C)		
655	2H	∗	K29-6270-12	KNOB (SELECTOR)		
656	2G	∗	K29-6268-14	KNOB (DISC-SEL)		
657	2H	∗	K29-6267-02	KNOB (POWER)		
658	3G	∗	K29-6294-14	KNOB (VOL)		
659	3G	∗	K29-6295-14	KNOB (MIC-MIX)		
⚠ 662	2J	∗	L07-2024-05	POWER TRANSFORMER	KP	
⚠ 662	2J	∗	L07-2025-05	POWER TRANSFORMER	YM	
⚠ 662	2J	∗	L07-2026-05	POWER TRANSFORMER	X	
⚠ 662	2J	∗	L07-2027-05	POWER TRANSFORMER	TE	
665	1G		T90-0801-05	LEAD WIRE ANTENNA	KPYMX	
665	1G		T90-0809-05	LEAD WIRE ANTENNA	TE	
666	1G	∗	T90-0820-05	LOOP ANTENNA		
RXD-G4						
601	1H	∗	A01-3281-11	METALLIC CABINET		
603	2G	∗	A21-1887-12	DRESSING PANEL		
604	2G	∗	A29-0808-12	PANEL (TRAY)		
605	3G	∗	A53-1912-12	CASSETTE HOLDER(A MECHA)		
606	3G	∗	A53-1913-12	CASSETTE HOLDER(B MECHA)		
607	2H	∗	A60-0822-11	PANEL	YMICXT	
607	2H	∗	A60-0822-11	PANEL	E	
607	2H	∗	A60-0900-11	PANEL	KP	
608	1G	∗	A70-1054-05	REMOTE CONTROLLER ASSY	TE	
608	1G	∗	A70-1063-05	REMOTE CONTROLLER ASSY	KPYMIC	
608	1G	∗	A70-1063-05	REMOTE CONTROLLER ASSY	X	
609	1G	∗	A09-0345-08	BATTERY COVER	KP	
614	2G	∗	B10-2181-12	FRONT GLASS	KPYMIC	
614	2G	∗	B10-2181-12	FRONT GLASS	X	
614	2G	∗	B10-2183-12	FRONT GLASS	TE	
615	3G	∗	B10-2187-23	FRONT GLASS (LID-A)		
616	3G	∗	B10-2188-13	FRONT GLASS (LID-B)		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-		∗	B46-0307-23	WARRANTY CARD	KY	
-			B46-0310-03	WARRANTY CARD	TE	
-		∗	B46-0326-03	WARRANTY CARD	C	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		∗	B58-0965-13	CAUTION CARD	XT	
-		∗	B58-0966-13	CAUTION CARD	MICE	
-		∗	B58-0967-03	CAUTION CARD	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2587-00	INSTRUCTION MANUAL(ENGLISH)	YMICX	
-		∗	B60-2588-00	INSTRUCTION MANUAL(ENGLISH)	KP	
-		∗	B60-2589-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		∗	B60-2590-00	INSTRUCTION MANUAL(FRENCH)	P	
-		∗	B60-2591-00	INSTRUCTION MANUAL(FRENCH)	E	

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

∗ New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

❸

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		∗	B60-2592-00	INSTRUCTION MANUAL(GERMAN)	E	
-		∗	B60-2593-00	INSTRUCTION MANUAL(DUTCH)	E	
-		∗	B60-2594-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		∗	B60-2595-00	INSTRUCTION MANUAL(SPANISH)	M	
-		∗	B60-2596-00	INSTRUCTION MANUAL(SPANISH)	E	
-		∗	B60-2597-00	INSTRUCTION MANUAL(CHINESE)	MIC	
-		∗	B60-2598-00	INSTRUCTION MANUAL(TAIWAN)	M	
620	3H	∗	D10-3607-04	LEVER		
621	3H		D39-0316-05	DAMPER		
⚠ 626	1G		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 627	1J		E30-2592-15	AC POWER CORD	MIE	
⚠ 627	1J		E30-2605-05	AC POWER CORD	Y	
⚠ 627	1J		E30-2650-05	AC POWER CORD	KP	
⚠ 627	1J		E30-2717-05	AC POWER CORD	X	
⚠ 627	1J	∗	E30-2829-05	AC POWER CORD	T	
⚠ 627	1J		E30-2830-05	AC POWER CORD	C	
628	2H	∗	E35-1297-05	FLAT CABLE		
635	3G	∗	G01-3840-14	TORSION COIL SPRING(A MECHA)		
636	3G	∗	G01-3841-14	TORSION COIL SPRING(B MWCHA)		
-		∗	H10-7155-22	POLYSTYRENE FOAMED FIXTURE		
-		∗	H10-7156-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	KPYMIC	
-			H25-0632-24	PROTECTION BAG	XE	
-			H25-0644-04	PROTECTION BAG	T	
-			H25-1509-04	PROTECTION BAG	MIC	
-			H25-1536-04	PROTECTION BAG	KPYXTE	
-		∗	H50-1823-04	ITEM CARTON CASE	KPYX	
-		∗	H50-1824-04	ITEM CARTON CASE	MC	
-		∗	H50-1825-04	ITEM CARTON CASE	I	
-		∗	H50-1827-04	ITEM CARTON CASE	TE	
640	3J		J02-0366-15	FOOT	KP	
641	1G	∗	J02-1155-04	FOOT	KP	
642	1J		J19-2808-05	HOLDER	MIC	
⚠ 649	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
653	3G,3H		K29-6016-14	KNOB (EJECT)		
654	2G	∗	K29-6269-04	KNOB (CD-O/C)		
655	2H	∗	K29-6270-12	KNOB (SELECTOR)		
656	2G	∗	K29-6271-24	KNOB (DISC-SEL)		
657	2H	∗	K29-6267-02	KNOB (POWER)		
658	3G	∗	K29-6294-14	KNOB (VOL)		
659	3G	∗	K29-6295-14	KNOB (MIC/MIX)		
⚠ 662	2J	∗	L07-2029-05	POWER TRANSFORMER	KP	
⚠ 662	2J	∗	L07-2030-05	POWER TRANSFORMER	YMI	
⚠ 662	2J	∗	L07-2031-05	POWER TRANSFORMER	X	
⚠ 662	2J	∗	L07-2032-05	POWER TRANSFORMER	TE	
⚠ 662	2J	∗	L07-2133-05	POWER TRANSFORMER	C	
665	1G		T90-0801-05	LEAD WIRE ANTENNA	KPYMIC	
665	1G		T90-0801-05	LEAD WIRE ANTENNA	X	
665	1G		T90-0809-05	LEAD WIRE ANTENNA	TE	
666	1G	∗	T90-0820-05	LOOP ANTENNA		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

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❹

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-G5						
601	1H	∗	A01-3281-11	METALLIC CABINET		
603	2G	∗	A21-1887-12	DRESSING PANEL		
604	2G	∗	A29-0808-12	PANEL (TRAY)		
605	3G	∗	A53-1912-12	CASSETTE HOLDER(A MECHA)		
606	3G	∗	A53-1913-12	CASSETTE HOLDER(B MECHA)		
607	2H	∗	A60-0826-11	PANEL	YMICXT	
607	2H	∗	A60-0826-11	PANEL	E	
607	2H	∗	A60-0902-11	PANEL	KP	
608	1G	∗	A70-1055-05	REMOTE CONTROLLER ASSY	KPYMIC	
608	1G	∗	A70-1055-05	REMOTE CONTROLLER ASSY	X	
608	1G	∗	A70-1056-05	REMOTE CONTROLLER ASSY	TE	
609	1G	∗	A09-0345-08	BATTERY COVER	KPYMIC	
614	2G	∗	B10-2184-12	FRONT GLASS	KPYMIC	
614	2G	∗	B10-2184-12	FRONT GLASS	X	
614	2G	∗	B10-2186-12	FRONT GLASS	TE	
615	3G	∗	B10-2187-23	FRONT GLASS (LID-A)		
616	3G	∗	B10-2188-13	FRONT GLASS (LID-B)		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-		∗	B46-0307-23	WARRANTY CARD	KY	
-			B46-0310-03	WARRANTY CARD	TE	
-		∗	B46-0326-03	WARRANTY CARD	C	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		∗	B58-0965-13	CAUTION CARD	XT	
-		∗	B58-0966-13	CAUTION CARD	MICE	
-		∗	B58-0967-03	CAUTION CARD	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2599-00	INSTRUCTION MANUAL(ENGLISH)	KPYMIC	
-		∗	B60-2599-00	INSTRUCTION MANUAL(ENGLISH)	X	
-		∗	B60-2600-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		∗	B60-2601-00	INSTRUCTION MANUAL(FRENCH)	P	
-		∗	B60-2602-00	INSTRUCTION MANUAL(FRENCH)	E	
-		∗	B60-2603-00	INSTRUCTION MANUAL(GERMAN)	E	
-		∗	B60-2604-00	INSTRUCTION MANUAL(GERMAN)	E	
-		∗	B60-2605-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		∗	B60-2606-00	INSTRUCTION MANUAL(SPANISH)	M	
-		∗	B60-2607-00	INSTRUCTION MANUAL(SPANISH)	E	
-		∗	B60-2608-00	INSTRUCTION MANUAL(CHINESE)	MIC	
-		∗	B60-2609-00	INSTRUCTION MANUAL(TAIWAN)	M	
620	3H	∗	D10-3607-04	LEVER		
621	3H		D39-0316-05	DAMPER		
⚠ 626	1G		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 627	1J		E30-2592-15	AC POWER CORD	MIE	
⚠ 627	1J		E30-2605-05	AC POWER CORD	Y	
⚠ 627	1J		E30-2650-05	AC POWER CORD	KP	
⚠ 627	1J		E30-2717-05	AC POWER CORD	X	
⚠ 627	1J	∗	E30-2829-05	AC POWER CORD	T	
⚠ 627	1J		E30-2830-05	AC POWER CORD	C	
628	2H	∗	E35-1297-05	FLAT CABLE		
635	3G	∗	G01-3840-14	TORSION COIL SPRING		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
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Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
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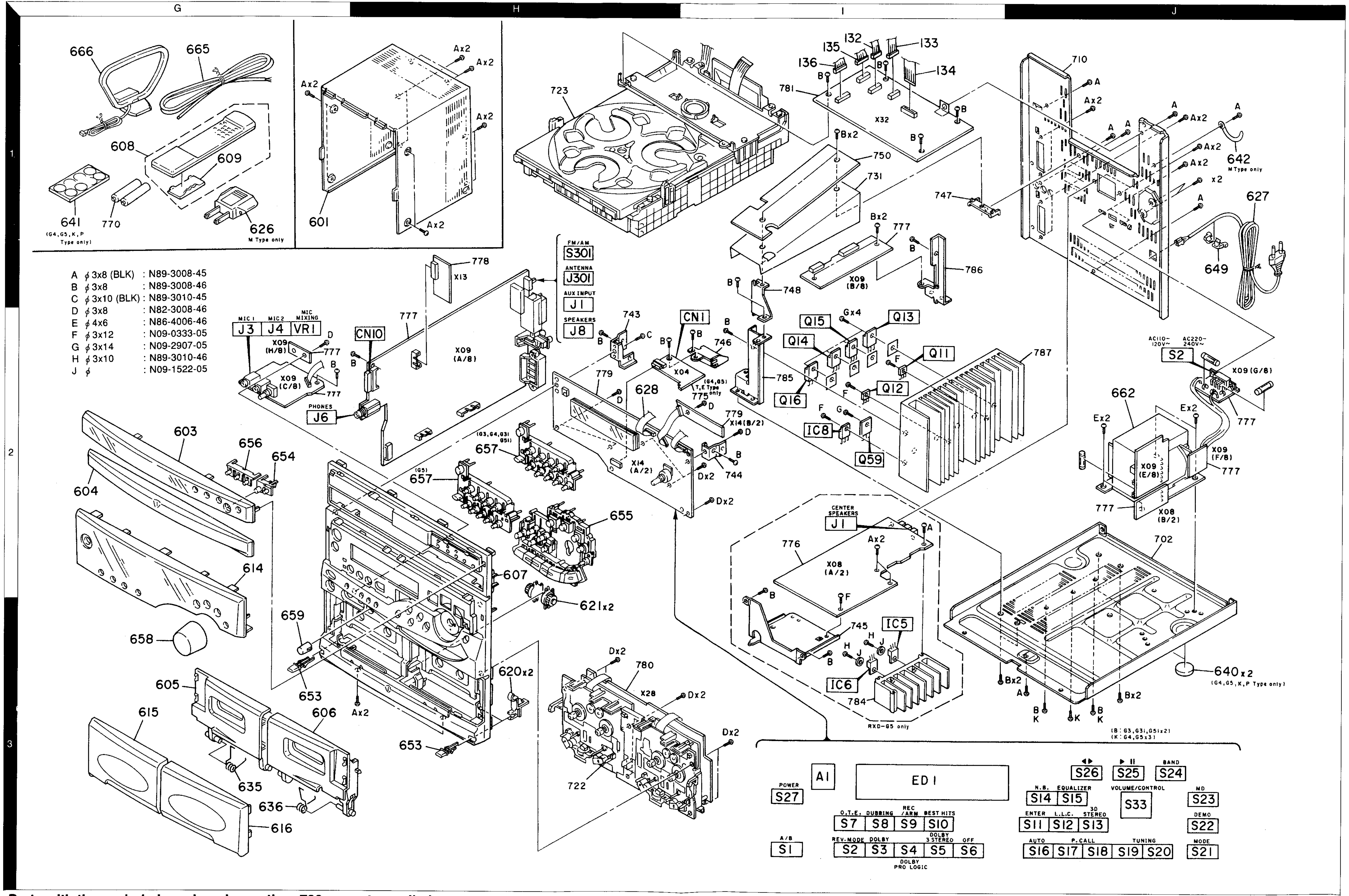
RXD-G3/G4/G5/G31/G51

RXD-G3/G4/G5/G31/G51

EXPLODED VIEW (UNIT)


G
H
I
J
1
2
3
666
665
608
609
641
(G4,G5,K,P Type only)
770
626
M Type only
601
Ax2
723
135
132
133
136
134
781
X32
Bx2
750
731
747
710
A
Ax2
x2
642
M Type only
627
649
778
X13
FM/AM
S301
ANTENNA
J301
AUX INPUT
J1
SPEAKERS
J8
777
748
X09 (B/8)
786
MIC 1
MIC 2
MIC MIXING
J3
J4
VR1
X09 (H/8)
CN10
X09 (A/8)
X09 (C/8)
PHONES
J6
743
CN1
746
X04
(G4,G5) T,E Type only
775
779
628
785
Q15
Gx4
Q13
Q14
Q11
Q12
Q16
IC8
Q59
787
AC110-120V~
AC220-240V~
S2
X09 (G/8)
662
Ex2
X09 (E/8)
X09 (F/8)
777
X08 (B/2)
603
656
654
604
(G3,G4,G31 G51)
657
(G5)
657
655
X14 (A/2)
X14 (B/2)
744
Dx2
614
607
621x2
659
658
605
615
653
606
620x2
635
636
616
780
X28
722
CENTER SPEAKERS
J1
776
X08 (A/2)
745
IC5
IC6
784
RXD-G5 only
702
640x2
(G4,G5,K,P Type only)
(B: G3,G31,G51x2)
(K: G4,G5x3)
B
C
D
E
F
G
H
J
K
A1
ED1
POWER
S27
A/B
S1
O.T.E.
DUBBING
REC /ARM
BEST HITS
S7
S8
S9
S10
REV.MODE
DOLBY
DOLBY 3 STEREO
OFF
S2
S3
S4
S5
S6
DOLBY PRO LOGIC
◄►
► II
BAND
S26
S25
S24
N.B.
EQUALIZER
VOLUME/CONTROL
MD
S14
S15
S33
S23
ENTER
L.L.C.
3D STEREO
DEMO
S11
S12
S13
S22
AUTO
P.CALL
TUNING
MODE
S16
S17
S18
S19
S20
S21

A ϕ 3x8 (BLK) : N89-3008-45
B ϕ 3x8 : N89-3008-46
C ϕ 3x10 (BLK) : N89-3010-45
D ϕ 3x8 : N82-3008-46
E ϕ 4x6 : N86-4006-46
F ϕ 3x12 : N09-0333-05
G ϕ 3x14 : N09-2907-05
H ϕ 3x10 : N89-3010-46
J ϕ : N09-1522-05

Parts with the exploded numbers larger than 700 are not supplied.

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⑨

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC2		*	LV1011L	DI BI-POLAR IC		
IC3			NJM4565L-D	ANALOGUE IC		
IC4		*	TDA7309	ANALOGUE IC		
IC5 ,6	3I		TDA2050V	ANALOGUE IC		
IC7			XRU4052BC	MOS-IC		
Q1,2			2SC2878(B)	TRANSISTOR		
Q4			2SC3940A(R,S)	TRANSISTOR		
Q4			2SD863(E,F)	TRANSISTOR		
Q5			2SC2003(L,K)	TRANSISTOR		
Q6			DTA113ZS	DIGITAL TRANSISTOR		
Q6			UN4119	TRANSISTOR		
Q7			DTC124ES	DIGITAL TRANSISTOR		
Q7			UN4212	TRANSISTOR		
AUDIO UNIT-TUNER (X09-4XXX-XX)						
C1,2			CC45FCH1H060D	CERAMIC 6.0PF D	TE	3,4
C1,2			CK45FB1H471K	CERAMIC 470PF K	TE	5
C3,4			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		5
C5,6			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C7,8			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C11 -14			CF92FV1H394J	MF-C 0.39UF J		
C15 -18			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C19 ,20			CK73FB1H562K	CHIP C 5600PF K		
C21 ,22			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C25 -28			CK73FB1E104K	CHIP C 0.10UF K		
C29 ,30			CK73FB1H223K	CHIP C 0.022UF K		
C31 ,32			CK73FB1H183K	CHIP C 0.018UF K		
C33 ,34			CE04LW1C220M	ELECTRO 22UF 16WV		
C35 ,36			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C37 ,38			CK73FB1H102K	CHIP C 1000PF K		
C39 ,40			CC73FSL1H470J	CHIP C 47PF J		
C43 ,44			CE04LW1A101M	ELECTRO 100UF 10WV		
C45 ,46			CK73FB1H222K	CHIP C 2200PF K		
C47 ,48			CC73FSL1H101J	CHIP C 100PF J		
C49 ,50			CC45FSL1H101J	CERAMIC 100PF J		
C51 ,52			CE04LW1H220M	ELECTRO 22UF 50WV		
C53 ,54			CK45FB1H102K	CERAMIC 1000PF K		
C55 ,56			CQ92FM1H104J	MYLAR 0.10UF J		
C57 ,58			CF92FV1H224J	MF-C 0.22UF J	XTE	
C59 ,60			CK45FB1H102K	CERAMIC 1000PF K		
C61 ,62			CK45FF1H472Z	CERAMIC 4700PF Z	TE	
C63 ,64			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		3,31
C63 ,64			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		4,5,51
C100			CK45FF1H103Z	CERAMIC 0.010UF Z		
C101-103			CK45FF1H103Z	CERAMIC 0.010UF Z		
C104			CC73FSL1H471J	CHIP C 470PF J		
C106			CE04LW1C221M	ELECTRO 220UF 16WV		
C107			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C108,109			CK73FB1E104K	CHIP C 0.10UF K		
C110,111			CC73FSL1H101J	CHIP C 100PF J		
C112,113			CK73FB1H223K	CHIP C 0.022UF K		
C114			CK73FB1H472K	CHIP C 4700PF K		
C115			CK73FB1E104K	CHIP C 0.10UF K		
C116			CK73FB1H122K	CHIP C 1200PF K		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
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Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

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⑩

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C117			CK73FB1H562K	CHIP C 5600PF K		
C118			CF92FV1H684J	MF-C 0.68UF J		
C119			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C120			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C121			CC73FSL1H331J	CHIP C 330PF J		
C123			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C124			CK73FB1H103K	CHIP C 0.010UF K		
C125			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C126			CC73FCH1H100D	CHIP C 10PF D		
C127			CC73FSL1H821J	CHIP C 820PF J		
C128			CC73FSL1H101J	CHIP C 100PF J		
C129,130			CE04LW1C470M	ELECTRO 47UF 16WV		
C131			CE04LW1H010M	ELECTRO 1.0UF 50WV		31,51
C132			CK73FB1H103K	CHIP C 0.010UF K		31,51
C133			CK73FB1H222K	CHIP C 2200PF K		31,51
C134			CF92FV1H124J	MF-C 0.12UF J		31,51
C135,136			CE04LW1HR47M	ELECTRO 0.47UF 50WV		31,51
C137			CF92FV1H105J	MF-C 1.0UF J		31,51
C138			CC73FSL1H101J	CHIP C 100PF J		31,51
C139			CE04LW1A470M	ELECTRO 47UF 10WV		31,51
C140			CF92FV1H124J	MF-C 0.12UF J		31,51
C141			CK73FB1H103K	CHIP C 0.010UF K		31,51
C142			CK73FB1H222K	CHIP C 2200PF K		31,51
C143,144			CE04LW1H010M	ELECTRO 1.0UF 50WV		31,51
C145			CE04LW1A470M	ELECTRO 47UF 10WV		31,51
C146			CE04LW1H100M	ELECTRO 10UF 50WV		31,51
C147			CK73FB1H103K	CHIP C 0.010UF K		
C148			CC73FSL1H271J	CHIP C 270PF J		
C149			CE04LW1H100M	ELECTRO 10UF 50WV		
C150			CE04LW1J101M	ELECTRO 100UF 63WV		
C151			CE04LW1C470M	ELECTRO 47UF 16WV		
C152			CE04LW2A2R2M	ELECTRO 2.2UF 100WV		
C153			CE04LW1H220M	ELECTRO 22UF 50WV		
C154			CE04LW1V471M	ELECTRO 470UF 35WV		
C155			CE04LW1V221M	ELECTRO 220UF 35WV		
C156			CQ92FM1H332J	MYLAR 3300PF J		
C157			CE04LW1V332M	ELECTRO 3300UF 35WV	YMICXT	
C157			CE04LW1V332M	ELECTRO 3300UF 35WV	E	
C157			C90-3310-05	ELECTRO 3300UF 35WV	KP	
C158,159			CK73FB1E104K	CHIP C 0.10UF K		
C160			CE04LW1V470M	ELECTRO 47UF 35WV		
C161			CE04LW1V330M	ELECTRO 33UF 35WV		
C162,163		*	C90-3596-05	ELECTRO 3300UF 50WV	YMXTE	3,31
C162,163		*	C90-3596-05	ELECTRO 3300UF 50WV	IC	31
C162,163		*	C90-3597-05	ELECTRO 4700UF 56WV	KP	3
C162,163		*	C90-3598-05	ELECTRO 4700UF 63WV	YMICXT	4,5,51
C162,163		*	C90-3598-05	ELECTRO 4700UF 63WV	E	4,5
C162,163		*	C90-3599-05	ELECTRO 5600UF 63WV	KP	4,5
C164			CE04LW1A470M	ELECTRO 47UF 10WV		
C165,166			CQ92FM1H104J	MYLAR 0.10UF J		
C167			CE04LW1V222M	ELECTRO 2200UF 35WV	YMICXT	
C167			CE04LW1V222M	ELECTRO 2200UF 35WV	E	
C167			C90-3309-05	ELECTRO 2200UF 35WV	KP	
C168			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C169			CE04LW1H101M	ELECTRO 100UF 50WV		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

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Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

⑪

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C170			CE04LW1V101M	ELECTRO 100UF 35WV		
C171			CE04LW1H221M	ELECTRO 220UF 50WV		
C172			CE04LW1H100M	ELECTRO 10UF 50WV		
C173			CE04LW1V220M	ELECTRO 22UF 35WV		
C174,175			CK45FF1H103Z	CERAMIC 0.010UF Z		
C176,177			C91-1422-05	MP 0.10UF 250WV		
C179			CE04LW1A470M	ELECTRO 47UF 10WV		
C180			CK45FF1H473Z	CERAMIC 0.047UF Z		
C181			CK73EB1H103K	CHIP C 0.010UF K		
C201,202			C91-1422-05	MP 0.10UF 250WV		
C301,302			CK73FB1H103K	CHIP C 0.010UF K		
C303			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C304			CE04LW1C470M	ELECTRO 47UF 16WV		
C305			CE04LW1A101M	ELECTRO 100UF 10WV		
C306			CK73FB1H223K	CHIP C 0.022UF K		
C307			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C308			CK73FB1H103K	CHIP C 0.010UF K		
C309			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C310			CE04LW1HR22M	ELECTRO 0.22UF 50WV		
C311,312			CQ92FM1H123J	MYLAR 0.012UF J	YMICXT	
C311,312			CQ92FM1H123J	MYLAR 0.012UF J	E	
C311,312			CQ92FM1H223J	MYLAR 0.022UF J	KP	
C313			CK45FF1H473Z	CERAMIC 0.047UF Z		
C315			CE04LW1C100M	ELECTRO 10UF 16WV		
C316			CK73FB1H681K	CHIP C 680PF K	TE	
C317			CC73FSL1H101J	CHIP C 100PF J		
C318			CK73FB1H152K	CHIP C 1500PF K	TE	
C319			CK73FB1H682K	CHIP C 6800PF K		
C320			CC73FSL1H101J	CHIP C 100PF J		
C322			CE04LW1C100M	ELECTRO 10UF 16WV		
C323			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C324			CE04LW1A101M	ELECTRO 100UF 10WV		
C325			CK45FF1H223Z	CERAMIC 0.022UF Z		
C326			CC73FCH1H220J	CHIP C 22PF J		
C327			CK73FB1H223K	CHIP C 0.022UF K		
C328			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C329			CC73FSL1H020C	CHIP C 2.0PF C	TE	
C330			CC73FCH1H220J	CHIP C 22PF J	TE	
C331			CC73FCH1H060D	CHIP C 6.0PF D	TE	
C332			CK73FB1H222K	CHIP C 2200PF K	T	
C333			CK73FB1H103K	CHIP C 0.010UF K		
C334			CC73FSL1H101J	CHIP C 100PF J	TE	
C343			CC73FSL1H471J	CHIP C 470PF J		
C344			CC73FCH1H220J	CHIP C 22PF J		
C345			CC73FCH1H270J	CHIP C 27PF J		
C346			C91-0757-05	CERAMIC 1000PF K		
C347,348			CK73FB1H102K	CHIP C 1000PF K		
C349			CE04LW1C470M	ELECTRO 47UF 16WV		
C350			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C351			CQ92FM1H223J	MYLAR 0.022UF J		
C352			CE04LW1A470M	ELECTRO 47UF 10WV		
C353			CK73FB1H103K	CHIP C 0.010UF K		
C354			CC73FSL1H101J	CHIP C 100PF J		
C355,356			CK73FB1H103K	CHIP C 0.010UF K		
C381			CE04LW1H0R1M	ELECTRO 0.1UF 50WV	TE	4,5

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
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Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

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⑫

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C382,383			CE04LW1C470M	ELECTRO 47UF 16WV		
C385,386			CE04LW1C100M	ELECTRO 10UF 16WV		
C387,388			CQ92FM1H822J	MYLAR 8200PF J	YMIC	
C401			CC73FCH1H330J	CHIP C 33PF J	TE	4,5
C402-405			CK73FB1H102K	CHIP C 1000PF K	TE	4,5
C406			CK73FB1H333K	CHIP C 0.033UF K	KPYMIC	
C406			CK73FB1H333K	CHIP C 0.033UF K	XE	
C407			CK73FB1H333K	CHIP C 0.033UF K	T	
C408			CK73FB1E473K	CHIP C 0.047UF K		
C411			CC73FCH1H100D	CHIP C 10PF D	T	
C431,432			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
CN1			E40-4691-05	PIN ASSY		4,5
CN3			E40-3252-05	PIN ASSY		3,4,5
CN4			E40-3253-05	PIN ASSY		3,4,5
CN5		*	E40-9872-05	SOCKET FOR PIN ASSY		
CN6		*	E40-9871-05	PIN ASSY		
CN7			E40-4814-05	SOCKET FOR PIN ASSY		
CN8			E40-4815-05	PIN ASSY		
CN9		*	E40-9812-05	PIN ASSY		
CN10	2H		E40-4858-05	SOCKET FOR PIN ASSY		
CN24			E40-4632-05	PIN ASSY		
J1	1H	*	E63-0168-05	PHONO JACK		
J3,4	2G		E11-0220-05	MINIATURE PHONE JACK		
J3,4	2G		E11-0283-05	MINIATURE PHONE JACK		
J6	2G		E11-0280-05	PHONE JACK		
J8	2H		E70-0048-05	LOCK TERMINAL BOARD3,4,31,51	YMICXT	
J8	2H		E70-0048-05	LOCK TERMINAL BOARD3,4	E	
J8	2H		E70-0056-05	LOCK TERMINAL BOARD3,4.31,51	YMICXT	
J8	2H		E70-0056-05	LOCK TERMINAL BOARD3,4	E	
J8	2H		E70-0057-05	LOCK TERMINAL BOARD5		
J8	2H		E70-0057-05	LOCK TERMINAL BOARD3,4	KP	
J301	1H		E20-0321-05	LOCK TERMINAL BOARD(2P,F)	TE	
J301	1H		E20-0476-05	LOCK TERMINAL BOARD(4P)	KPYMIC	
J301	1H		E20-0476-05	LOCK TERMINAL BOARD(4P)	X	
J301	1H		E70-0051-05	LOCK TERMINAL BOARD	KPYMIC	
J301	1H		E70-0051-05	LOCK TERMINAL BOARD	X	
J301	1H		E70-0052-05	LOCK TERMINAL BOARD	TE	
⚠ F1,2			F04-5022-05	FUSE (UL) (125V 5A UL)	KP	3
⚠ F1,2			F05-4025-05	FUSE (SEMKO) (250V T4A L)	YMICXT	
⚠ F1,2			F05-4025-05	FUSE (SEMKO) (250V T4A L)	E	
⚠ F1,2			F05-6029-05	FUSE (UL) (125V 6A)	KP	4,5
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	YMICXT	
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E	
⚠ F3			F05-4028-05	FUSE (UL) (125V 4A)	KP	
⚠ F4			F04-5022-05	FUSE (UL) (125V 5A UL)	KP	4,5
⚠ F4			F06-3027-05	FUSE (UL) (250V 3A)	KP	3
⚠ F5			F06-2021-05	FUSE (SEMKO) (250V T2AL)	YMI	
⚠ F6			F50-0062-05	FUSE(5X20)	KP	
⚠ F7			F06-2021-05	FUSE (SEMKO) (250V T2AL)	YMI	
J302		*	F10-0945-04	SHIELDING PLATE	KPYMIC	
J302		*	F10-0945-04	SHIELDING PLATE	X	
J302		*	F10-0997-04	SHIELDING PLATE	TE	
CN12-17			J13-0075-05	FUSE CLIP		

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❺

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
636	3G	*	G01-3841-14	TORSION COIL SPRING		
-		*	H10-7155-22	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7156-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	KPYMIC	
-			H25-0632-24	PROTECTION BAG	XE	
-			H25-0644-04	PROTECTION BAG	T	
-			H25-1509-04	PROTECTION BAG	MIC	
-			H25-1536-04	PROTECTION BAG	KPYXTE	
-		*	H50-1828-04	ITEM CARTON CASE	KPYX	
-		*	H50-1829-04	ITEM CARTON CASE	MC	
-		*	H50-1831-04	ITEM CARTON CASE	TE	
-		*	H50-1832-04	ITEM CARTON CASE	I	
640	3J		J02-0366-15	FOOT	KP	
641	1G	*	J02-1155-04	FOOT	KP	
642	1J		J19-2808-05	HOLDER	MIC	
⚠ 649	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
653	3G,3H		K29-6016-14	KNOB (EJECT)		
654	2G	*	K29-6269-04	KNOB (CD-O/C)		
655	2H	*	K29-6270-12	KNOB (SELECTOR)		
656	2G	*	K29-6271-24	KNOB (DISC-SEL)		
657	2H	*	K29-6272-02	KNOB (POWER)		
658	3G	*	K29-6294-14	KNOB (VOL)		
659	3G	*	K29-6295-14	KNOB (MIC/MIX)		
⚠ 662	2J	*	L07-2033-05	POWER TRANSFORMER	KP	
⚠ 662	2J	*	L07-2034-05	POWER TRANSFORMER	YMI	
⚠ 662	2J	*	L07-2035-05	POWER TRANSFORMER	X	
⚠ 662	2J	*	L07-2036-05	POWER TRANSFORMER	TE	
⚠ 662	2J	*	L07-2134-05	POWER TRANSFORMER	C	
665	1G		T90-0801-05	LEAD WIRE ANTENNA	KPYMIC	
665	1G		T90-0801-05	LEAD WIRE ANTENNA	X	
665	1G		T90-0809-05	LEAD WIRE ANTENNA	TE	
666	1G	*	T90-0820-05	LOOP ANTENNA		

RXD-G31/G51

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
601	1H	*	A01-3281-11	METALLIC CABINET		
603	2G	*	A21-1886-12	DRESSING PANEL (G31)		
603	2G	*	A21-1887-12	DRESSING PANEL (G51)		
604	2G	*	A29-0808-12	PANEL (TRAY)		
605	3G	*	A53-1912-12	CASSETTE HOLDER(A MECHA)		
606	3G	*	A53-1913-12	CASSETTE HOLDER(B MECHA)		
607	2H	*	A60-0819-11	PANEL (G31)		
607	2H	*	A60-0822-11	PANEL (G51)		
608	1G	*	A70-1053-05	REMOTE CONTROLLER ASSY (G31)		
608	1G	*	A70-1063-05	REMOTE CONTROLLER ASSY (G51)		
609	1G	*	A09-0345-08	BATTERY COVER		
614	2G	*	B10-2236-12	FRONT GLASS (G31)		
614	2G	*	B10-2237-12	FRONT GLASS (G51)		
615	3G	*	B10-2178-23	FRONT GLASS (LID-A)(G31)		
615	3G	*	B10-2187-23	FRONT GLASS (LID-A)(G51)		
616	3G	*	B10-2179-13	FRONT GLASS (LID-B)(G31)		
616	3G	*	B10-2188-13	FRONT GLASS (LID-B)(G51)		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-		*	B46-0326-03	WARRANTY CARD	C	
-		*	B58-0966-13	CAUTION CARD		
-		*	B60-2715-00	INSTRUCTION MANUAL(ENGLISH)G31		
-		*	B60-2716-00	INSTRUCTION MANUAL(SPANISH)G31	M	
-		*	B60-2717-00	INSTRUCTION MANUAL(CHINESE)G31		
-		*	B60-2718-00	INSTRUCTION MANUAL(TAIWAN) G31	M	
-		*	B60-2719-00	INSTRUCTION MANUAL(ENGLISH)G51		
-		*	B60-2720-00	INSTRUCTION MANUAL(SPANISH)G51	M	
-		*	B60-2721-00	INSTRUCTION MANUAL(CHINESE)G51		
-		*	B60-2722-00	INSTRUCTION MANUAL(TAIWAN) G51	M	
620	3H	*	D10-3607-04	LEVER		
621	3H		D39-0316-05	DAMPER		
⚠ 626	1G		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 627	1J		E30-2592-15	AC POWER CORD	MI	
⚠ 627	1J		E30-2830-05	AC POWER CORD	C	
628	2H	*	E35-1297-05	FLAT CABLE		
635	3G	*	G01-3840-14	TORSION COIL SPRING(A MECHA)		
636	3G	*	G01-3841-14	TORSION COIL SPRING(B MECHA)		
-		*	H10-7155-22	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7156-22	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-			H25-1509-04	PROTECTION BAG		
-		*	H50-1948-04	ITEM CARTON CASE(G31)	MC	
-		*	H50-1949-04	ITEM CARTON CASE(G31)	I	
-		*	H50-1950-04	ITEM CARTON CASE(G51)	MC	
-		*	H50-1951-04	ITEM CARTON CASE(G51)	I	
642	1J		J19-2808-05	HOLDER		
⚠ 649	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
653	3G,3H		K29-6016-14	KNOB (EJECT)		
654	2G	*	K29-6269-04	KNOB (CD-O/C)		
655	2H	*	K29-6270-12	KNOB (SELECTOR)		
656	2G	*	K29-6268-14	KNOB (DISC-SEL)(G31)		
656	2G	*	K29-6271-24	KNOB (DISC-SEL)(G51)		
657	2H	*	K29-6267-02	KNOB (POWER)		
658	3G	*	K29-6294-14	KNOB (VOL)		
659	3G	*	K29-6295-14	KNOB (MIC/MIX)		
⚠ 662	2J	*	L07-2025-05	POWER TRANSFORMER(G31) MI		
⚠ 662	2J	*	L07-2030-05	POWER TRANSFORMER(G51) MI		
⚠ 662	2J	*	L07-2132-05	POWER TRANSFORMER(G31) C		
⚠ 662	2J	*	L07-2133-05	POWER TRANSFORMER(G51) C		
665	1G		T90-0801-05	LEAD WIRE ANTENNA		
666	1G	*	T90-0820-05	LOOP ANTENNA		

RDS UNIT (X04-1302-70)

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C1			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
C2			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C3			CC45FSL1H331J	CERAMIC 330PF J	TE	
C4			CK45FB1H561K	CERAMIC 560PF K	TE	
C5			CC45FCH1H470J	CERAMIC 47PF J	TE	
C6			CC45FCH1H220J	CERAMIC 22PF J	TE	
C7,8			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	

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C9			CE04LW1C470M	ELECTRO 47UF 16WV	TE	
C10			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
CN1	2I		E40-4797-05	SOCKET FOR PIN ASSY	TE	
L1			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	
L2			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
X1			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	TE	
X2			L78-0244-05	RESONATOR (4.000M)	TE	
D1			HSS104	DIODE	TE	
D1			1SS133	DIODE	TE	
IC1			SAA6579	ANALOGUE IC	TE	
IC2			LC6543H-4D68	MI-COM IC	TE	

SURROUND UNIT (X08-270X-XX) : RXD-G5 ONLY

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C1,2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3,4			CE04LW1H100M	ELECTRO 10UF 50WV		
C5			CF92FV1H394J	MF-C 0.39UF J		
C7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C9,10			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C13 ,14			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C15 ,16			CC45FSL1H470J	CERAMIC 47PF J		
C19 ,20			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C21 ,22			CK45FB1H102K	CERAMIC 1000PF K		
C23 ,24			CE04LW1V220M	ELECTRO 22UF 35WV		
C25 ,26			CK45FB1H222K	CERAMIC 2200PF K		
C27			CQ92FM1H104J	MYLAR 0.10UF J	YMICXT	
C27			CQ92FM1H104J	MYLAR 0.10UF J	E	
C28			CE04LW1E471M	ELECTRO 470UF 25WV		
C31 ,32			CQ92FM1H104J	MYLAR 0.10UF J		
C35 ,36			CQ92FM1H472J	MYLAR 4700PF J	KP	
C35 ,36			CQ92FM1H822J	MYLAR 8200PF J	YMICXT	
C35 ,36			CQ92FM1H822J	MYLAR 8200PF J	E	
C37			CQ92FM1H104J	MYLAR 0.10UF J		
C38			CE04LW1C221M	ELECTRO 220UF 16WV		
C39			CQ92FM1H333J	MYLAR 0.033UF J		
C40			CQ92FM1H152J	MYLAR 1500PF J		
C41			CQ92FM1H333J	MYLAR 0.033UF J		
C42			CE04LW1C221M	ELECTRO 220UF 16WV		
C43			CK45FF1H103Z	CERAMIC 0.010UF Z		
C44			CE04LW1H100M	ELECTRO 10UF 50WV		
C45			CQ92FM1H103J	MYLAR 0.010UF J		
C46 -48			CC45FSL1H101J	CERAMIC 100PF J		
C49			CQ92FM1H681J	MYLAR 680PF J		
C50			CF92FV1H474J	MF-C 0.47UF J		
C51			CE04LW1C470M	ELECTRO 47UF 16WV		
C52 ,53			CQ92FM1H104J	MYLAR 0.10UF J		
C54			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C55			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C56			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C57			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C58			CF92FV1H154J	MF-C 0.15UF J		
C59			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C60 ,61			CF92FV1H154J	MF-C 0.15UF J		
C62			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		

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Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C63			CF92FV1H154J	MF-C 0.15UF J		
C64			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C65			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C66			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C67			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C68 ,69			CQ92FM1H104J	MYLAR 0.10UF J		
C70			CE04LW1C221M	ELECTRO 220UF 16WV		
C71 -74			CE04LW1H100M	ELECTRO 10UF 50WV		
C75			CE04LW1C221M	ELECTRO 220UF 16WV		
C76			CQ92FM1H473J	MYLAR 0.047UF J		
C77			CQ92FM1H223J	MYLAR 0.022UF J		
C78			CE04KW1E472M	ELECTRO 4700UF 25WV		
C79			CE04LW1E332M	ELECTRO 3300UF 25WV		
C80			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C81			CE04LW1H100M	ELECTRO 10UF 50WV		
C82			CQ92FM1H104J	MYLAR 0.10UF J		
C83			CE04LW1C101M	ELECTRO 100UF 16WV		
C84			CK45FF1H103Z	CERAMIC 0.010UF Z		
C85 ,86			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C94 ,95			CC45FSL1H101J	CERAMIC 100PF J		
C96			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C97 -100			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C101			CE04LW1C470M	ELECTRO 47UF 16WV		
C102			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C103,104			CK45FF1H103Z	CERAMIC 0.010UF Z		
C105,106			CE04LW1C470M	ELECTRO 47UF 16WV		
C107			CK45FF1H103Z	CERAMIC 0.010UF Z		
J1	2I	*	E70-0067-05	LOCK TERMINAL BOARD		
⚠ F8,9			F05-4025-05	FUSE (SEMKO) (250V T4A L)	YMICXT	
⚠ F8,9			F05-4025-05	FUSE (SEMKO) (250V T4A L)	E	
⚠ F8,9			F05-4028-05	FUSE (UL) (125V 4A)	KP	
CN1 -4			J13-0075-05	FUSE CLIP		
X1			L78-0290-05	RESONATOR (8MHZ)		
R8			RD14NB2E2R2J	RD 2.2 J 1/4W		
R33 ,34			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W		
R46			RS14KB3D181J	FL-PROOF RS 180 J 2W		
R55			RS14KB3A152J	FL-PROOF RS 1.5K J 1W		
K1		*	S76-0043-05	MAGNETIC RELAY		
D1			MTZJ10(B)	ZENER DIODE		
D1			UZ-10BSB	ZENER DIODE		
D3,4			HSS104A	DIODE		
D3,4			1SS131	DIODE		
D5			D3SBA20F03	DIODE		
D5			RBV-402LFA	DIODE		
D6			MTZJ3.9(B)	ZENER DIODE		
D6			UZ-3.9BSB	ZENER DIODE		
D7			MTZJ6.2(B)	ZENER DIODE		
D7			UZ-6.2BSB	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS131	DIODE		
IC1		*	LA2785L	ANALOGUE IC		

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D21 ,22			MTZJ8.2(B)	ZENER DIODE	XTE	5
D21 ,22			UZ-10BSB	ZENER DIODE	KP	4,5
D21 ,22			UZ-11BSB	ZENER DIODE	YMIC	4
D21 ,22			UZ-13BSB	ZENER DIODE	XTEMIC	4,51
D21 ,22			UZ-4.7BSB	ZENER DIODE	YMIC	5
D21 ,22			UZ-8.2BSB	ZENER DIODE	XTE	5
D23 ,24			HSS104A	DIODE		
D23 ,24			1SS131	DIODE		
D25			MTZJ5.6(B)	ZENER DIODE		
D25			UZ-5.6BSB	ZENER DIODE		
D26			KBP02ML-6127	DIODE		
D27			MTZJ13(B)	ZENER DIODE		
D27			UZ-13BSB	ZENER DIODE		
D28			HSS104A	DIODE		5
D28			1SS131	DIODE		5
D29 -32			HSS104A	DIODE		
D29 -32			1SS131	DIODE		
D33 ,34			S5688B	DIODE		
D33 ,34			1SR139-100	DIODE		
D35 ,36			HSS104A	DIODE		
D35 ,36			1SS131	DIODE		
D37 -40			S5688B	DIODE		
D37 -40			1SR139-100	DIODE		
D41 ,42			MTZJ16(B)	ZENER DIODE		
D41 ,42			UZ-16BSB	ZENER DIODE		
D43			HSS104A	DIODE		
D43			1SS131	DIODE		
D44			D3SBA20F03	DIODE		
D44			RBV-402LFA	DIODE		
D45			S5688B	DIODE		
D45			1SR139-100	DIODE		
D46			MTZJ5.6(B)	ZENER DIODE		
D46			UZ-5.6BSB	ZENER DIODE		
D47			MTZJ3.9(B)	ZENER DIODE		
D47			UZ-3.9BSB	ZENER DIODE		
D48			HSS104A	DIODE		
D48			1SS131	DIODE		
D49			MTZJ5.1(B)	ZENER DIODE		
D49			UZ-5.1BSB	ZENER DIODE		
D50			S5688B	DIODE		
D50			1SR139-100	DIODE		
D301			MTZJ6.8(B)	ZENER DIODE		
D301			UZ-6.8BSB	ZENER DIODE		
D302			HSS104	DIODE		
D302			1SS133	DIODE		
D306			HSS104	DIODE		
D306			1SS133	DIODE		
D308			MTZJ5.1(B)	ZENER DIODE		
D308			UZ-5.1BSB	ZENER DIODE		
D309			HSS104	DIODE	TE	4,5
D309		∗	1SS133	DIODE	TE	4,5
D310			1SS268	DIODE	TE	4,5
D311,312			HSS104	DIODE		
D311,312		∗	1SS133	DIODE		
D314			HSS104	DIODE	TE	4,5

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D314		∗	1SS133	DIODE	TE	4,5
D315			MTZJ3.3(B)	ZENER DIODE		
D315			UZ-3.3BSB	ZENER DIODE		
IC1			NJU7313AM	ANALOGUE IC		
IC2			NJM4565MD	IC(OP AMP X2)		
IC3		∗	TDA7431	ANALOGUE IC		
IC4			NJM4565MD	IC(OP AMP X2)		
IC5			BU4094BCF	MOS-IC		
IC6			M65844P	IC(DIGITAL ECHO)		31,51
IC7			BU4066BCF	IC(ANALOG SWITCH X4)		31,51
IC8			TA78057S	IC(VOLTAGE REGULATOR/+5.75V)		
IC50			NJM4565MD	IC(OP AMP X2)		4,5
IC301		∗	BA1450S	ANALOGUE IC		
IC302			LC72131	MOS-IC		
IC303			NJM4565D	IC(OP AMP X2)		
IC305			M5223P	IC(OP AMP X2)	TE	4,5
Q1,2			2SC2878(B)	TRANSISTOR		
Q3-6			2SC1845(F,E)	TRANSISTOR		
Q3-6			2SC2389S(S,E)	TRANSISTOR		3,5,31,51
Q7,8			2SA992(F,E)	TRANSISTOR		
Q9,10			2SC1845(F,E)	TRANSISTOR		5,31,51
Q9,10			2SC1845(F,E)	TRANSISTOR	E	3,4
Q9,10			2SC1845(F,E)	TRANSISTOR	YMICXT	3,4
Q9,10			2SC2389S(S,E)	TRANSISTOR		5,31,51
Q9,10			2SC2389S(S,E)	TRANSISTOR	YMXTE	3
Q11 ,12			2SC4137F50(V,W	TRANSISTOR		
Q13 ,14			2SD2389	TRANSISTOR	KP	4,5
Q13 ,14			2SD2493	TRANSISTOR	YMICXT	4,5
Q13 ,14			2SD2493	TRANSISTOR	E	4,5
Q13 ,14			2SD2493	TRANSISTOR		3,31,51
Q15 ,16			2SB1559	TRANSISTOR	KP	4,5
Q15 ,16			2SB1624	TRANSISTOR	YMICXT	4,5
Q15 ,16			2SB1624	TRANSISTOR	E	4,5
Q15 ,16			2SB1624	TRANSISTOR		3,31,51
Q17 ,18			2SC2003(L,K)	TRANSISTOR		
Q50 ,51			DTC124EU	DIGITAL TRANSISTOR		
Q50 ,51			UN5212	TRANSISTOR		
Q52			2SA1175(F,E)	TRANSISTOR		
Q52			2SA933S(Q,R)	TRANSISTOR		
Q53			2SC1740S(Q,R)	TRANSISTOR		
Q53			2SC2785(F,E)	TRANSISTOR		
Q54			2SA1175(F,E)	TRANSISTOR		
Q54			2SA933S(Q,R)	TRANSISTOR		
Q55 ,56			2SC2003(L,K)	TRANSISTOR		
Q57			2SA1175(F,E)	TRANSISTOR		
Q57			2SA933S(Q,R)	TRANSISTOR		
Q58			2SA954(L,K)	TRANSISTOR		
Q59			2SD1893	TRANSISTOR	YMICXT	
Q59			2SD1893	TRANSISTOR	E	
Q59			2SD1894	TRANSISTOR	KP	
Q60 ,61			2SC4081(R,S)	TRANSISTOR		
Q60 ,61			2SD1819A(Q,R)	TRANSISTOR		
Q62			2SC2003(L,K)	TRANSISTOR		5
Q63 ,64			2SB1370	TRANSISTOR		
Q63 ,64			2SB1375	TRANSISTOR		

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Q65			2SC2003(L,K)	TRANSISTOR		
Q66			2SA1286	TRANSISTOR		
Q301			2SC2714(R,O)	TRANSISTOR		
Q302			2SA1576(R,S)	TRANSISTOR		
Q302		∗	2SB1218A(Q,R)	TRANSISTOR		
Q304-306			2SC4081(R,S)	TRANSISTOR		
Q304-306			2SD1819A(Q,R)	TRANSISTOR		
Q307			2SA1576(R,S)	TRANSISTOR		
Q307		∗	2SB1218A(Q,R)	TRANSISTOR		
Q308			2SC4081(R,S)	TRANSISTOR	TE	
Q308			2SD1819A(Q,R)	TRANSISTOR	TE	
Q309			2SC4081(R,S)	TRANSISTOR	T	
Q309			2SD1819A(Q,R)	TRANSISTOR	T	
Q310			2SA1576(R,S)	TRANSISTOR	T	
Q310		∗	2SB1218A(Q,R)	TRANSISTOR	T	
Q311			2SC2878(B)	TRANSISTOR	T	
Q312			2SC4081(R,S)	TRANSISTOR	TE	4,5
Q312			2SD1819A(Q,R)	TRANSISTOR	TE	4,5
Q313			2SA1576(R,S)	TRANSISTOR	TE	4,5
Q313		∗	2SB1218A(Q,R)	TRANSISTOR	TE	4,5
Q314			2SC1740S(Q,R)	TRANSISTOR	T	
Q314			2SC2785(F,E)	TRANSISTOR	T	
Q315,316			2SC4081(R,S)	TRANSISTOR	YMIC	
Q315,316			2SD1819A(Q,R)	TRANSISTOR	YMIC	
A301		∗	W02-2539-05	FM FRONT-END ASSY	KPYMIC	
A301		∗	W02-2539-05	FM FRONT-END ASSY	X	
A301			W02-2540-05	FM FRONT-END ASSY	TE	

SUB CIRCUIT (X13-7360-00)

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C1,2			CE04LW1HR33M	ELECTRO 0.33UF 50WV		
C3-8			CE04LW1H100M	ELECTRO 10UF 50WV		
C9			CQ92FM1H472J	MYLAR 4700PF J		
C10			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C11			CC45FSL1H050C	CERAMIC 5.0PF C		
C13			CE04LW1C101M	ELECTRO 100UF 16WV		
C14			CQ92FM1H104J	MYLAR 0.10UF J		
C15 ,16			CC45FSL1H101J	CERAMIC 100PF J		
C20			CE04LW1C220M	ELECTRO 22UF 16WV		
CN1			E40-4690-05	PIN ASSY		
D1			MTZJ8.2(B)	ZENER DIODE		
D1			UZ-8.2BSB	ZENER DIODE		
IC1			NJM4565D	IC(OP AMP X2)		
IC2			TDA7309	ANALOGUE IC		
IC3			NJM4565D	IC(OP AMP X2)		

DISPLAY UNIT (X14-41XX-XX)

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D57 -61			B30-2462-05	LED(GRN)		
D62 -65			B30-2476-05	LED(GRN & RED)		
D66			B30-2462-05	LED(GRN)		
D67 -69			B30-2476-05	LED(GRN & RED)		4,5,31,51
C1			C90-3216-05	ELECTRO 330UF 6.3WV		
C2			CK73FB1E104K	CHIP C 0.10UF K		
C3			CK73FB1H223K	CHIP C 0.022UF K		
C4,5			C90-3253-05	ELECTRO 1.0UF 50WV		
C6			CK73FB1H103K	CHIP C 0.010UF K		

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C7			C90-3253-05	ELECTRO 1.0UF 50WV		
C8			CC73FCH1H220J	CHIP C 22PF J		
C9			CC73FCH1H180J	CHIP C 18PF J		
C10 ,11			CK73FB1H103K	CHIP C 0.010UF K		
C12			CE04LW1H100M	ELECTRO 10UF 50WV		
C13			CC73FSL1H102J	CHIP C 1000PF J		
C14 -16			CC73FSL1H101J	CHIP C 100PF J		
C17 -20			CK73FB1E104K	CHIP C 0.10UF K		
C21			C90-3258-05	ELECTRO 10UF 50WV		
C22			CC73FSL1H102J	CHIP C 1000PF J		
C23			CC73FSL1H271J	CHIP C 270PF J		
C24			CK73FB1H103K	CHIP C 0.010UF K		
C25 ,26			CK73EF1E105Z	CHIP C 1.0UF Z		
C30			CE04LW1A470M	ELECTRO 47UF 10WV		
C31			CK73FB1H103K	CHIP C 0.010UF K		
CN1			E40-4857-05	PIN ASSY		
CN2			E40-4789-05	PIN ASSY 4,5	TE	
CN3		∗	E40-4902-05	FLAT CABLE CONNECTOR		
X1			L77-2111-05	CRYSTAL RESONATOR(32.768KHZ)		
X2			L78-0605-05	RESONATOR (8.38MHZ)		
CP1			R90-0949-05	MULTIPLE RESISTOR		
CP2			R90-0802-05	MULTI-COMP 100KX10 J 1/4W		
R5			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R6			RK73FB2A103J	CHIP R 10K J 1/10W		
R8			RK73FB2A104J	CHIP R 100K J 1/10W		
R9			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R10			RK73FB2A103J	CHIP R 10K J 1/10W		
R11			RK73FB2A101J	CHIP R 100 J 1/10W		
R12			RK73FB2A474J	CHIP R 470K J 1/10W		
R13			RK73FB2A475K	CHIP R 4.7M K 1/10W		
R15			RK73FB2A101J	CHIP R 100 J 1/10W		
R16			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R17 ,18			RK73FB2A103J	CHIP R 10K J 1/10W		
R22 -27			RK73FB2A103J	CHIP R 10K J 1/10W		
R32 ,33			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R34			RK73FB2A473J	CHIP R 47K J 1/10W		
R37 ,38			RK73FB2A104J	CHIP R 100K J 1/10W		
R39			RK73FB2A473J	CHIP R 47K J 1/10W		
R41			RK73FB2A473J	CHIP R 47K J 1/10W		
R47 ,48			RK73FB2A103J	CHIP R 10K J 1/10W		
R49 ,50			RK73FB2A473J	CHIP R 47K J 1/10W		
R52			RK73FB2A223J	CHIP R 22K J 1/10W		
R54			RK73FB2A223J	CHIP R 22K J 1/10W		
R56			RK73FB2A223J	CHIP R 22K J 1/10W		
R57			RK73FB2A103J	CHIP R 10K J 1/10W		
R58			RK73FB2A223J	CHIP R 22K J 1/10W		
R59			RK73FB2A103J	CHIP R 10K J 1/10W		
R60			RK73FB2A223J	CHIP R 22K J 1/10W		
R61			RK73FB2A103J	CHIP R 10K J 1/10W		
R62			RK73FB2A223J	CHIP R 22K J 1/10W		
R63			RK73FB2A103J	CHIP R 10K J 1/10W		
R64			RK73FB2A223J	CHIP R 22K J 1/10W		
R65			RK73FB2A103J	CHIP R 10K J 1/10W		
R66			RK73FB2A223J	CHIP R 22K J 1/10W		

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CN18,19			J13-0075-05	FUSE CLIP	KP	
CN20,21			J13-0075-05	FUSE CLIP	YMI	
CN22,23			J13-0075-05	FUSE CLIP	KP	
CN25,26			J13-0075-05	FUSE CLIP	YMI	
J9,10			J11-0809-05	WIRE CLAMPER		
J13			J11-0809-05	WIRE CLAMPER		
CF301,302			L72-0531-05	CERAMIC FILTER	KPYMIC	
CF301,302			L72-0531-05	CERAMIC FILTER	X	
CF301,302			L72-0536-05	CERAMIC FILTER	TE	
L1,2			L39-0085-05	PHASE COMPENSATION COIL	TE	
L301			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L302			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
L303			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L304		∗	L30-0921-05	FM IFT		
L305			L30-0911-05	AM IFT		
L306			L79-1227-05	LC FILTER	TE	
L307		∗	L39-1338-05	COMBINATION COIL	T	
L307		∗	L39-1339-05	COMBINATION COIL	KPYMIC	
L307		∗	L39-1339-05	COMBINATION COIL	XE	
X301			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)		
R3,4			RK73EB2B124J	CHIP R 120K J 1/8W		4,5,51
R3,4			RK73EB2B333J	CHIP R 33K J 1/8W		3,31
R11			RK73FB2A224J	CHIP R 220K J 1/10W		
R12			RK73EB2B224J	CHIP R 220K J 1/8W		
R15 ,16			RK73FB2A224J	CHIP R 220K J 1/10W		
R17 ,18			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R19 ,20			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R21 ,22			RK73FB2A224J	CHIP R 220K J 1/10W		
R27 ,28			RK73FB2A223J	CHIP R 22K J 1/10W		
R31 ,32			RK73FB2A103J	CHIP R 10K J 1/10W		
R35 ,36			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R37 ,38			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R41 ,42			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R43 ,44			RK73FB2A183J	CHIP R 18K J 1/10W		
R45 ,46			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R47 ,48			RK73FB2A103J	CHIP R 10K J 1/10W		
R77 -80			RD14NB2E100J	RD 10 J 1/4W		
R81 -84			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R91 ,92			RD14NB2E4R7J	RD 4.7 J 1/4W		
R93 -96			RD14NB2E681J	RD 680 J 1/4W		
R102,103			RD14NB2E100J	RD 10 J 1/4W		
R104			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R105			RD14NB2E101J	RD 100 J 1/4W		
R114			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R115			RK73FB2A621J	CHIP R 620 J 1/10W		
R116			RK73FB2A473J	CHIP R 47K J 1/10W		
R117			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R118			RK73FB2A621J	CHIP R 620 J 1/10W		
R121			RK73FB2A473J	CHIP R 47K J 1/10W		
R122			RK73FB2A751J	CHIP R 750 J 1/10W		
R123			RK73FB2A473J	CHIP R 47K J 1/10W		
R125			RK73FB2A103J	CHIP R 10K J 1/10W		
R127,128			RD14NB2E102J	RD 1.0K J 1/4W		
R130,131			RK73FB2A333J	CHIP R 33K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R132			RK73FB2A101J	CHIP R 100 J 1/10W		31,51
R133			RK73FB2A225J	CHIP R 2.2M J 1/10W		31,51
R134			RK73FB2A563J	CHIP R 56K J 1/10W		31,51
R135,136			RK73FB2A333J	CHIP R 33K J 1/10W		31,51
R137			RK73FB2A563J	CHIP R 56K J 1/10W		31,51
R138			RK73FB2A333J	CHIP R 33K J 1/10W		31,51
R140			RK73FB2A153J	CHIP R 15K J 1/10W		31,51
R141			RD14NB2E121J	RD 120 J 1/4W		31,51
R142,143			RK73FB2A103J	CHIP R 10K J 1/10W		31,51
R144-146			RK73FB2A224J	CHIP R 220K J 1/10W		31,51
R148,149			RK73FB2A101J	CHIP R 100 J 1/10W		
R153			RD14NB2E101J	RD 100 J 1/4W		
R171,172			RS14KB3D102J	FL-PROOF RS 1.0K J 2W		
R173			RS14KB3A152J	FL-PROOF RS 1.5K J 1W		
R178			RS14KB3D221J	FL-PROOF RS 220 J 2W		5
R181			RS14KB3D221J	FL-PROOF RS 220 J 2W		
⚠ R184			R92-1769-05	CARBON 3.3M J 1/2W	KP	
R187,188			RD14NB2E4R7J	RD 4.7 J 1/4W	TE	
R189,190			RS14KB3D102J	FL-PROOF RS 1.0K J 2W		
R195,196			RK73FB2A101J	CHIP R 100 J 1/10W		3,4,31,51
R195,196			RK73FB2A822J	CHIP R 8.2K J 1/10W		5
R197			RK73FB2A101J	CHIP R 100 J 1/10W		
R198			RD14NB2E2R2J	RD 2.2 J 1/4W	KP	
R199,200			RK73FB2A103J	CHIP R 10K J 1/10W		5
R199,200			RK73FB2A224J	CHIP R 220K J 1/10W		3,4,31,51
R302			RK73FB2A681J	CHIP R 680 J 1/10W		
R303			RK73FB2A331J	CHIP R 330 J 1/10W		
R304			RK73FB2A100J	CHIP R 10 J 1/10W		
R305			RK73FB2A331J	CHIP R 330 J 1/10W		
R306			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R307			RK73FB2A101J	CHIP R 100 J 1/10W		
R308			RK73FB2A331J	CHIP R 330 J 1/10W		
R311			RK73FB2A103J	CHIP R 10K J 1/10W		
R312			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R314			RK73FB2A473J	CHIP R 47K J 1/10W		
R318			RK73FB2A562J	CHIP R 5.6K J 1/10W	TE	
R319			RK73FB2A332J	CHIP R 3.3K J 1/10W	TE	
R320			RK73FB2A222J	CHIP R 2.2K J 1/10W	TE	
R322			RK73FB2A123J	CHIP R 12K J 1/10W	KPYMIC	
R322			RK73FB2A123J	CHIP R 12K J 1/10W	X	
R322			RK73FB2A223J	CHIP R 22K J 1/10W	TE	
R324			RD14NB2E121J	RD 120 J 1/4W		
R325			RK73FB2A473J	CHIP R 47K J 1/10W	TE	
R332-334			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R337			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R339,340			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R341			RD14NB2E561J	RD 560 J 1/4W		
R342			RK73FB2A102J	CHIP R 1.0K J 1/10W	TE	
R342			RK73FB2A103J	CHIP R 10K J 1/10W	KPYMIC	
R342			RK73FB2A103J	CHIP R 10K J 1/10W	X	
R344			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R345			RD14NB2E101J	RD 100 J 1/4W		
R348			RK73FB2A152J	CHIP R 1.5K J 1/10W	T	
R349			RK73FB2A223J	CHIP R 22K J 1/10W	T	
R361			RK73FB2A104J	CHIP R 100K J 1/10W	TE	4,5

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R362			RK73FB2A473J	CHIP R 47K J 1/10W	TE	4,5
R363			RK73FB2A683J	CHIP R 68K J 1/10W	TE	4,5
R365			RK73FB2A102J	CHIP R 1.0K J 1/10W	TE	4,5
R366			RK73FB2A104J	CHIP R 100K J 1/10W	TE	4,5
R367			RK73FB2A102J	CHIP R 1.0K J 1/10W	TE	4,5
R372			RK73FB2A153J	CHIP R 15K J 1/10W	TE	
R372			RK73FB2A332J	CHIP R 3.3K J 1/10W	KPYMIC	
R372			RK73FB2A332J	CHIP R 3.3K J 1/10W	X	
R373,374			RK73FB2A561J	CHIP R 560 J 1/10W	YMIC	
R375,376			RK73FB2A473J	CHIP R 47K J 1/10W	YMIC	
R381,382			RD14NB2E101J	RD 100 J 1/4W		
R383,384			RK73FB2A103J	CHIP R 10K J 1/10W		
R385,386			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R387,388			RK73FB2A473J	CHIP R 47K J 1/10W		
R389,390			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R391			RK73FB2A473J	CHIP R 47K J 1/10W		
R392			RK73FB2A821J	CHIP R 820 J 1/10W		
R393			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R395			RK73FB2A103J	CHIP R 10K J 1/10W		
R396			RK73FB2A473J	CHIP R 47K J 1/10W	T	
R402			RK73FB2A153J	CHIP R 15K J 1/10W	T	
R403			RK73FB2A105J	CHIP R 1.0M J 1/10W	T	
R405			RK73FB2A104J	CHIP R 100K J 1/10W		
R406			RK73FB2A103J	CHIP R 10K J 1/10W	T	
R407			RD14NB2E221J	RD 220 J 1/4W		
R408			RD14NB2E820J	RD 82 J 1/4W		
R409			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R423			RK73FB2A103J	CHIP R 10K J 1/10W	TE	4,5
R424,425			RK73FB2A223J	CHIP R 22K J 1/10W	TE	4,5
R426			RK73FB2A104J	CHIP R 100K J 1/10W	TE	4,5
R427			RK73FB2A181J	CHIP R 180 J 1/10W	TE	4,5
R428			RK73FB2A471J	CHIP R 470 J 1/10W	TE	4,5
R429			RK73FB2A681J	CHIP R 680 J 1/10W	TE	4,5
R430			RK73FB2A104J	CHIP R 100K J 1/10W	TE	4,5
R431			RK73FB2A621J	CHIP R 620 J 1/10W	TE	4,5
R432			RK73FB2A750J	CHIP R 75 J 1/10W	TE	4,5
R433			RK73FB2A122J	CHIP R 1.2K J 1/10W	TE	4,5
R501			RK73EB2B513J	CHIP R 51K J 1/8W		4,5
R502			RK73FB2A513J	CHIP R 51K J 1/10W		4,5
R503,504			RK73FB2A333J	CHIP R 33K J 1/10W		4,5
VR1	2G		R31-0028-05	VARIABLE RESISTOR		
W401-403			R92-0670-05	CHIP R 0 OHM	KPYMIC	
W401-403			R92-0670-05	CHIP R 0 OHM	XE	
W404			R92-0679-05	CHIP R 0 OHM		
W405			R92-0670-05	CHIP R 0 OHM	TE	4,5
W406			R92-0670-05	CHIP R 0 OHM	KPYMIC	
W406			R92-0670-05	CHIP R 0 OHM	XE	
W407			R92-0670-05	CHIP R 0 OHM		
W408			R92-0679-05	CHIP R 0 OHM		
W409			R92-0670-05	CHIP R 0 OHM	KPYMIC	
W409			R92-0670-05	CHIP R 0 OHM	X	
W410			R92-0670-05	CHIP R 0 OHM		
W414			R92-0679-05	CHIP R 0 OHM		
W500-507			R92-0670-05	CHIP R 0 OHM		
W511,512			R92-0670-05	CHIP R 0 OHM		3,4

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W513-516			R92-0670-05	CHIP R 0 OHM		5
W518			R92-0670-05	CHIP R 0 OHM		
W600-610			R92-0679-05	CHIP R 0 OHM		
W611,612			R92-0679-05	CHIP R 0 OHM		4,5,51
W613			R92-0679-05	CHIP R 0 OHM		
W614			R92-0679-05	CHIP R 0 OHM		4,5,51
W615			R92-0679-05	CHIP R 0 OHM		
W616			R92-0679-05	CHIP R 0 OHM		
W617			R92-0679-05	CHIP R 0 OHM		4,5,51
W619-624			R92-0679-05	CHIP R 0 OHM		
W625			R92-0679-05	CHIP R 0 OHM		
W626-628			R92-0679-05	CHIP R 0 OHM		
W633			R92-0679-05	CHIP R 0 OHM		
K1		∗	S76-0042-05	MAGNETIC RELAY		5
K2		∗	S76-0043-05	MAGNETIC RELAY		
S1		∗	S62-0055-05	SLIDE SWITCH	YMICXT	3,4,31
S1		∗	S62-0055-05	SLIDE SWITCH	E	3,4,31
⚠ S2	2J		S62-0001-05	SLIDE SWITCH	YMI	
S301		∗	S62-0056-05	SLIDE SWITCH	YMIC	
D3,4			HSS104A	DIODE		
D3,4			1SS131	DIODE		
D7,8			MA111	DIODE		
D9			MTZJ4.7(B)	ZENER DIODE		
D9			UZ-4.7BSB	ZENER DIODE		
D10 ,11			HSS104A	DIODE		
D10 ,11			1SS131	DIODE		
D12			MTZJ6.2(B)	ZENER DIODE		31,51
D12			UZ-6.2BSB	ZENER DIODE		31,51
D13			MTZJ4.7(B)	ZENER DIODE		
D13			UZ-4.7BSB	ZENER DIODE		
D14			S5688B	DIODE		
D14			1SR139-100	DIODE		
D15 -18			HSS104A	DIODE		
D15 -18			1SS131	DIODE		
D19 ,20			MTZJ15(B)	ZENER DIODE	YMXTE	3
D19 ,20			MTZJ15(B)	ZENER DIODE	IC	31
D19 ,20			MTZJ16(B)	ZENER DIODE	YMICXT	51
D19 ,20			MTZJ18(B)	ZENER DIODE	YMICXT	4
D19 ,20			MTZJ18(B)	ZENER DIODE	E	4
D19 ,20			MTZJ24(B)	ZENER DIODE		5
D19 ,20			MTZJ24(B)	ZENER DIODE	KP	4
D19 ,20			MTZJ30(B)	ZENER DIODE	KP	3
D19 ,20			UZ-15BSB	ZENER DIODE	YMXTE	3
D19 ,20			UZ-15BSB	ZENER DIODE	IC	31
D19 ,20			UZ-16BSB	ZENER DIODE	YMICXT	51
D19 ,20			UZ-18BSB	ZENER DIODE	YMICXT	4
D19 ,20			UZ-18BSB	ZENER DIODE	E	4
D19 ,20			UZ-24BS	ZENER DIODE		5
D19 ,20			UZ-24BS	ZENER DIODE	KP	4
D19 ,20			UZ-30BS	ZENER DIODE	KP	3
D21 ,22			MTZJ10(B)	ZENER DIODE	KP	4,5
D21 ,22			MTZJ11(B)	ZENER DIODE	YMIC	4
D21 ,22			MTZJ13(B)	ZENER DIODE	XTEMIC	4,51
D21 ,22			MTZJ4.7(B)	ZENER DIODE	YMIC	5

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R67			RK73FB2A103J	CHIP R 10K J 1/10W		
R68			RK73FB2A223J	CHIP R 22K J 1/10W		
R69			RK73FB2A103J	CHIP R 10K J 1/10W		
R70			RK73FB2A223J	CHIP R 22K J 1/10W		
R72			RK73FB2A103J	CHIP R 10K J 1/10W	YMIC	
R73			RK73FB2A223J	CHIP R 22K J 1/10W	YMIC	
R74			RK73FB2A103J	CHIP R 10K J 1/10W		
R77 ,78			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R82 ,83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R100,101			RK73FB2A101J	CHIP R 100 J 1/10W		
R103			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R104			RK73FB2A103J	CHIP R 10K J 1/10W		
R105			RK73FB2A104J	CHIP R 100K J 1/10W		
R106			RK73FB2A103J	CHIP R 10K J 1/10W		
R110			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R111			RK73FB2A473J	CHIP R 47K J 1/10W		
R112-115			RK73FB2A101J	CHIP R 100 J 1/10W		
R117-120			RK73FB2A101J	CHIP R 100 J 1/10W		
R122			RK73EB2B331J	CHIP R 330 J 1/8W		
R124			RK73EB2B331J	CHIP R 330 J 1/8W		
R129			RK73FB2A101J	CHIP R 100 J 1/10W		
R130-132			RD14BB2C101J	RD 100 J 1/6W	TE	4,5
R133			RK73FB2A101J	CHIP R 100 J 1/10W		
R150-153			RK73FB2A473J	CHIP R 47K J 1/10W		
R154-160			RK73FB2A104J	CHIP R 100K J 1/10W		
R200			RK73EB2B473J	CHIP R 47K J 1/8W		
W302,303			R92-0679-05	CHIP R 0 OHM		
W305			R92-0679-05	CHIP R 0 OHM		
W307			R92-0679-05	CHIP R 0 OHM		
W308-310			R92-0670-05	CHIP R 0 OHM		
W311			R92-0679-05	CHIP R 0 OHM		
W312-314			R92-0670-05	CHIP R 0 OHM		
W317,318			R92-0670-05	CHIP R 0 OHM		
W319			R92-0679-05	CHIP R 0 OHM		
W320			R92-0679-05	CHIP R 0 OHM		
W322-326			R92-0679-05	CHIP R 0 OHM		
W330			R92-0679-05	CHIP R 0 OHM		
W335			R92-0670-05	CHIP R 0 OHM		
W341			R92-0670-05	CHIP R 0 OHM		
W351			R92-0679-05	CHIP R 0 OHM		
W355			R92-0679-05	CHIP R 0 OHM		
S1-3			S70-0031-05	TACT SWITCH		
S4-6			S70-0031-05	TACT SWITCH		5
S7-32			S70-0031-05	TACT SWITCH		
S33		∗	T99-0570-05	ROTARY ENCODER		
D1-4			MA111	DIODE		
D5-10			HSS104A	DIODE		
D5-10			1SS131	DIODE		
D12			MA111	DIODE	TE	
D13			MA111	DIODE	XT	
D14			MA111	DIODE	XYMICE	
D15			MA111	DIODE		51
D16			MA111	DIODE		4,5

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D17			MA111	DIODE		5
D19 -22			HSS104A	DIODE		
D19 -22			1SS131	DIODE		
D23			MA111	DIODE		
D24 -27			HSS104A	DIODE		
D24 -27			1SS131	DIODE		
D32 -34			MA111	DIODE		
D42 ,43			MA111	DIODE		
D44 ,45			HSS104A	DIODE		
D44 ,45			1SS131	DIODE		
D47			HSS104A	DIODE		
D47			1SS131	DIODE		
D48			MA111	DIODE		
D49			HSS104A	DIODE		
D49			1SS131	DIODE		
D52			MTZJ6.8(B)	ZENER DIODE		
D52			UZ-6.8BSB	ZENER DIODE		
D53 -56			HSS104A	DIODE		
D53 -56			1SS131	DIODE		
D71 -74			HSS104A	DIODE		
D71 -74			1SS131	DIODE		
D75			MA111	DIODE	YMIC	
D77			HSS104A	DIODE		
D77			1SS131	DIODE		
D80			HSS104A	DIODE		
D80			1SS131	DIODE		
ED1		∗	BJ428GK	INDICATOR TUBE		3,31
ED1		∗	FIP10FMW6R	INDICATOR TUBE		4,5,51
IC1		∗	M38198MC-069FP	MI-COM IC	KPYMIC	4,5
IC1		∗	M38198MC-069FP	MI-COM IC	X	4,5
IC1		∗	M38198MC-069FP	MI-COM IC		3,51
IC1		∗	M38199MF-051FP	MI-COM IC	TE	4,5
IC2		∗	NJU3718L	MOS-IC		
IC3			PST993D-T	ANALOGUE IC		
IC3			S-806D-Z	ANALOGUE IC		
IC4		∗	BA3835F	ANALOGUE IC		
Q2,3			2SC4081	TRANSISTOR		
Q8,9			2SC4081	TRANSISTOR		
Q11			2SC4081	TRANSISTOR		
Q12 -22			2SA1576A(R,S)	TRANSISTOR	YMIC	
Q12 -22		∗	2SB1218A(Q,R)	TRANSISTOR	YMIC	
Q13 -22			2SA1576A(R,S)	TRANSISTOR	KPXTE	
Q13 -22		∗	2SB1218A(Q,R)	TRANSISTOR	KPXTE	
A1	3I		W02-1191-05	ELECTRIC CIRCUIT MODULE		
A1	3I		W02-2537-05	ELECTRIC CIRCUIT MODULE		
RECORD/PLAY BACK UNIT (X28-2770-XX)						
C1,2			CK45FB1H681K	CERAMIC 680PF K		
C3,4			CE04LW1H100M	ELECTRO 10UF 50WV		
C5,6			CK45FB1H391K	CERAMIC 390PF K		
C7,8			CE04LW1C470M	ELECTRO 47UF 16WV		
C9,10			CQ92FM1H153J	MYLAR 0.015UF J		
C11 ,12			CK45FB1H222K	CERAMIC 2200PF K		
C13 -16			CC45FSL1H221J	CERAMIC 220PF J		
C17 ,18			CC45FSL1H221J	CERAMIC 220PF J		3,4

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C19 ,20			CK45FB1H681K	CERAMIC	680PF	K		
C21 ,22			CE04LW1H100M	ELECTRO	10UF	50WV		
C23 ,24			CK45FB1H391K	CERAMIC	390PF	K		
C25 ,26			CE04LW1C470M	ELECTRO	47UF	16WV		
C27 ,28			CQ92FM1H223J	MYLAR	0.022UF	J		
C29 ,30			CK45FB1H682K	CERAMIC	6800PF	K		
C31 ,32			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C33 ,34			CQ92FM1H333J	MYLAR	0.033UF	J		
C35 ,36			CK45FB1H222K	CERAMIC	2200PF	K		
C37 -40			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C41 ,42			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C43 ,44			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		
C45 ,46			CE04LW1H100M	ELECTRO	10UF	50WV		
C47 ,48			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C49 ,50			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C51 ,52			CE04LW1A101M	ELECTRO	100UF	10WV		
C53 ,54			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C55 ,56			C91-1436-05	FILM	220PF	J		4,5,51
C57 ,58			C91-1434-05	FILM	150PF	J		4,5,51
C59 -62			CK45FF1H223Z	CERAMIC	0.022UF	Z		4,5,51
C63 ,64			CK45FB1H561K	CERAMIC	560PF	K		4,5,51
C65 ,66			CK45FF1H103Z	CERAMIC	0.010UF	Z		4,5,51
C67 ,68			CE04LW1HR33M	ELECTRO	0.33UF	50WV		4,5,51
C101			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C102			CE04LW1C220M	ELECTRO	22UF	16WV		
C103			CE04LW1C101M	ELECTRO	100UF	16WV		
C104			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		
C105			CQ92FM1H103J	MYLAR	0.010UF	J		
C106			CK45FB2H471K	CERAMIC	470PF	K		
C107			CQ93HP2A103J	MYLAR	0.010UF	J		4,5,51
C107			CQ93HP2A822J	MYLAR	8200PF	J		3,31
C108			CC45FSL2H100D	CERAMIC	10PF	D		4,5,51
C109			CE04LW1H100M	ELECTRO	10UF	50WV		
C110			CQ92FM1H103J	MYLAR	0.010UF	J		
C111,112			CQ92FM1H332J	MYLAR	3300PF	J		3,31
C111,112			CQ92FM1H562J	MYLAR	5600PF	J		4,5,51
C113			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		3,31
C113			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		4,5,51
C114			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C115			CE04LW1C220M	ELECTRO	22UF	16WV		
C116,117			CE04LW1C101M	ELECTRO	100UF	16WV		
C118			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C119			CC45FSL1H271J	CERAMIC	270PF	J		
CN1			E40-3247-05	PIN ASSY	(3P)			
CN2			E40-3249-05	PIN ASSY	(5P)			
CN3 ,4			E40-4609-05	PIN ASSY	(15P)			
CN5			E40-4977-05	PIN ASSY	(5P)			
CN6			E40-4902-05	FLAT CABLE CONNECTOR				
CN7			E40-9813-05	SOCKET FOR PIN ASSY				
E1			J11-0808-05	WIRE CLAMPER				
L1-4			L40-1035-20	SMALL FIXED INDUCTOR,10MH				
L5,6			L79-1201-05	LC FILTER				
L7,8			L32-0547-05	BIAS OSCILLATION COIL				4,5,51

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L9			L32-0542-05	BIAS OSCILLATION COIL					3,31
L9			L32-0570-05	BIAS OSCILLATION COIL					4,5,51
R120			RD14NB2E100J	RD	10	J	1/4W		
R165			RD14NB2E100J	RD	10	J	1/4W		
VR1 ,2			R32-0031-05	TRIMMING POT					
VR3 ,4			R32-0030-05	TRIMMING POT					
VR5 ,6			R32-0041-05	TRIMMING POT					3,31
VR7 -9			R32-0036-05	TRIMMING POT					4,5,51
VR9			R12-1619-05	TRIMMING POT					3,31
K1			S51-2089-05	IC					
K1			S76-0018-05	MAGNETIC RELAY					
D1,2			HSS104	DIODE					
D1,2			1SS133	DIODE					
D4-6			HSS104	DIODE					
D4-6			1SS133	DIODE					
D7			MTZJ2.7(B)	ZENER DIODE					
D7			UZ-2.7BSB	ZENER DIODE					
IC1 ,2			TA8125S	IC(2CH PRE AMP)					
IC3			HA12182F	IC(DOLBY B IC)					
IC4			UPC1297CA	IC(DOL HX PRO SYSTEM)					4,5,51
IC5			BA10393	IC(DUAL COMPARATOR)					
IC6 ,7			BU4094BC	IC(8-STAGE/STORE REGISTER)					
Q1,2			DTC124ES	TRANSISTOR					
Q1,2			UN4212	TRANSISTOR					
Q51			DTC124ES	TRANSISTOR					
Q51			UN4212	TRANSISTOR					
Q52			2SC1740S(Q,R)	TRANSISTOR					
Q52			2SC2785(F,E)	TRANSISTOR					
Q54 ,55			2SC1845(F,E)	TRANSISTOR					
Q56 ,57			2SC1740S(Q,R)	TRANSISTOR					
Q56 ,57			2SC2785(F,E)	TRANSISTOR					
Q58			2SC3940A(R,S)	TRANSISTOR					
Q59			2SC1740S(Q,R)	TRANSISTOR					
Q59			2SC2785(F,E)	TRANSISTOR					
Q60			2SA992(F,E)	TRANSISTOR					
Q61			DTC124ES	TRANSISTOR					
Q61			UN4212	TRANSISTOR					
Q63 -65			2SC3246	TRANSISTOR					
CD PLAYER UNIT (X32-3120-10)									
C1			CQ92FM1H103J	MYLAR	0.010UF	J			
C2			CQ92FM1H472J	MYLAR	4700PF	J			
C3			CC45FSL1H470J	CERAMIC	47PF	J			
C4			CF92FV1H474J	MF-C	0.47UF	J			
C5			CE04LW1H100M	ELECTRO	10UF	50WV			
C6			CQ92FM1H104J	MYLAR	0.10UF	J			
C7			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV			
C8			CQ92FM1H104J	MYLAR	0.10UF	J			
C9			CQ92FM1H333J	MYLAR	0.033UF	J			
C10			CC45FSL1H101J	CERAMIC	100PF	J			
C11			CQ92FM1H102J	MYLAR	1000PF	J			
C12			CC45FSL1H221J	CERAMIC	220PF	J			
C13			CQ92FM1H473J	MYLAR	0.047UF	J			
C14			CE04LW1H100M	ELECTRO	10UF	50WV			

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C15			CE04HW1E100M	NP-ELEC 10UF 25WV		
C16 -18			CQ92FM1H103J	MYLAR 0.010UF J		
C19			CQ92FM1H333J	MYLAR 0.033UF J		
C20			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C21 ,22			CK45FF1H103Z	CERAMIC 0.010UF Z		
C23			CF92FV1H224J	MF-C 0.22UF J		
C24 ,25			CE04LW1A101M	ELECTRO 100UF 10WV		
C26			CC45FSL1H270J	CERAMIC 27PF J		
C27			CQ92FM1H103J	MYLAR 0.010UF J		
C28			CQ92FM1H333J	MYLAR 0.033UF J		
C29			CQ92FM1H103J	MYLAR 0.010UF J		
C30			CQ92FM1H222J	MYLAR 2200PF J		
C35 ,36			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C37			CK45FF1H103Z	CERAMIC 0.010UF Z		
C38			CQ92FM1H332J	MYLAR 3300PF J		
C39			CK45FF1H103Z	CERAMIC 0.010UF Z		
C40			CQ92FM1H473J	MYLAR 0.047UF J		
C41			CQ92FM1H152J	MYLAR 1500PF J		
C42			CQ92FM1H103J	MYLAR 0.010UF J		
C43			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C44			CK45FF1H103Z	CERAMIC 0.010UF Z		
C45			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C46			CK45FF1H103Z	CERAMIC 0.010UF Z		
C55			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C56			CE04LW1A331M	ELECTRO 330UF 10WV		
C57 ,58			CC45FSL1H221J	CERAMIC 220PF J		
C59 -62			CK45FB1H391K	CERAMIC 390PF K		
C63 ,64			CQ92FM1H222J	MYLAR 2200PF J		
C65 ,66			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C67			CE04LW1A101M	ELECTRO 100UF 10WV		
C68 ,69			CE04LW1A471M	ELECTRO 470UF 10WV		
C70			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C71			CE04LW1A470M	ELECTRO 47UF 10WV		
C72			CE04LW1C470M	ELECTRO 47UF 16WV		
C73			CK45FF1H223Z	CERAMIC 0.022UF Z		
C74 ,75			CE04LW1H100M	ELECTRO 10UF 50WV		
C76			CK45FB1H102K	CERAMIC 1000PF K		
C77			CC45FSL1H271J	CERAMIC 270PF J		
C79 -81			CK45FF1H223Z	CERAMIC 0.022UF Z		
C82			CK45FF1H103Z	CERAMIC 0.010UF Z		
C83			CC45FSL1H470J	CERAMIC 47PF J		
C84			CK45FF1H103Z	CERAMIC 0.010UF Z		
CN1			E40-4856-05	FLAT CABLE CONNECTOR		
CN2			E40-4876-05	PIN ASSY		
CN3			E40-4377-05	PIN ASSY		
CN4			E40-4763-05	PIN ASSY		
CN5			E40-3247-05	PIN ASSY		
CN6			E40-4762-05	PIN ASSY		
CN7			E40-3256-05	PIN ASSY		
CN8			E40-3259-05	PIN ASSY		
E1,2			J11-0098-05	WIRE CLAMPER		
E4,5			J11-0098-05	WIRE CLAMPER		
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		

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X1			L78-0299-05	RESONATOR (16.93M)		
R97			RD14NB2E2R2J	RD 2.2 J 1/4W		
VR1		∗	R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
VR2		∗	R32-0039-05	SEMI FIXED VARIABLE RESISTOR		
VR3		∗	R32-0040-05	SEMI FIXED VARIABLE RESISTOR		
D1-6			HSS104	DIODE		
D1-6		∗	1SS133	DIODE		
D7			MTZJ3.3(B)	ZENER DIODE		
D7			UZ-3.3BSB	ZENER DIODE		
IC1			CXA1782BQ ∗1	ANALOGUE IC		
IC2		∗	CXD2508AQ ∗1	MOS-IC		
IC3		∗	LA6537	ANALOGUE IC		
IC4 ,5			TA8409S	IC(MOTOR CONTROL)		
IC6			BU4094BC	MOS-IC		
IC7			NJM2100D	ANALOGUE IC		
IC8			M5237L	ANALOGUE IC		
IC9			TC74HC166AP	IC(8BIT SHIFT REGISTER)		
Q1			2SC1740S(Q,R)	TRANSISTOR		
Q1			2SC2785(F,E)	TRANSISTOR		
Q2			2SA954(L,K)	TRANSISTOR		
Q3			DTA124ES	DIGITAL TRANSISTOR		
Q3			UN4112	TRANSISTOR		
Q4			2SA954(L,K)	TRANSISTOR		
Q5			2SC1740S(Q,R)	TRANSISTOR		
Q5			2SC2785(F,E)	TRANSISTOR		
Q6			2SA1286	TRANSISTOR		
Q7			DTC124ES	DIGITAL TRANSISTOR		
Q7			UN4212	TRANSISTOR		
Q8			2SB1375	TRANSISTOR		
Q8			2SB1565(E,F)	TRANSISTOR		
Q9,10			2SA1175(F,E)	TRANSISTOR		
Q9,10			2SA933S(Q,R)	TRANSISTOR		
Q11 ,12			2SC2878(B)	TRANSISTOR		
Q13			DTC124ES	DIGITAL TRANSISTOR		
Q13			UN4212	TRANSISTOR		
CD MECHANISM (D40-1455-05)						
101	3B		A10-3119-08	CHASSIS (MAIN)		
102	3A		A15-0089-08	FRAME (MD-B)		
105	2A		D10-3533-08	SLIDER (LIFT)		
107	2B		D10-3459-08	LEVER (LOCK)		
108	2A		D10-3638-08	LEVER (BRAKE)		
109	2B		D10-3496-08	FRICTION ARM ASSY		
110	2A		D10-3606-08	FEED SHAFT		
113	1A		D13-1599-08	GEAR (IDLER)		
114	2B		D13-1600-08	GEAR (LOAD)		
115	2B		D13-1601-08	GEAR (CENTER)		
117	3A		D13-1603-08	CAM GEAR(UP/DOWN)		
118	1A		D13-1604-08	GEAR (HELICAL)		
119	2A		D13-1720-08	GEAR		
120	2B,3B		D14-0361-08	ROLLER (TRAY)		
122	2B		D15-0366-08	PULLEY (LOAD)		
123	2B		D16-0363-08	DRIVE BELT		
125	2B		D21-1762-08	SHAFT (PULLEY)		

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132	1I		E35-0811-08	3P WIRE		
133	1I		E35-1184-08	6P WIRE		
134	1I		E35-1185-08	6P FLAT WIRE		
135	1I		E35-1186-08	6P WIRE (TU-D)		
136	1I		E35-1187-08	16P FFC		
137	3A		E40-3264-05	CONNECTOR		
140	1A		F07-0773-08	COVER (TRAY)		
141	2A		F07-0736-08	COVER		
142	1B	*	F07-0770-08	COVER		
145	3A		G01-3806-08	SPRING (MD-G)		
146	3A		G01-3807-08	SPRING (MD-H)		
148	3A		G01-3663-08	SPRING (CAM)		
149	2B		G01-3664-08	SPRING (LOCK)		
150	2A		G01-3665-08	SPRING (BRAKE)		
151	2A		G01-3768-08	SPRING (LEFT)		
152	1A,1B		G16-0821-04	SHEET (TRAY)		
153	3B		G16-0856-08	FILAMENT TAPE		
155	2A		J02-1133-08	INSULATOR		
156	2B	*	J11-0813-08	CLAMPER		
157	1B		J19-3758-08	BRACKET (CLAMP)		
158	2B		J19-3660-08	BRACKET (GEAR)		
159	2B,3B		J19-3661-08	BRACKET (TRAY)		
160	3A		J61-0081-05	SK BINDER SKB-100		
161	1A		J99-0541-08	TRAY (SLIDE)		
162	1A		J99-0542-08	TRAY (ROTARY)		
L			N09-2658-08	SCREW		
M			N09-3053-08	SCREW		
N			N09-3107-08	SCREW		
P			N09-3140-08	SCREW		
Q			N09-3141-08	SCREW		
165	2B		S33-2061-05	LEVER SWITCH		
166	1A,2A		S64-0015-08	LEVER SWITCH JPS1220-0201		
167	3A		S74-0038-08	LEAF SWITCH		
171	1B		T99-0544-05	MAGNET		
DM	3A		A11-1082-08	TT CHASSIS ASSY		
FM	3A		T42-0817-08	MOTOR GEAR (FEED)		
LM	3B		T42-0682-08	MOTOR PULLEY ASSY		
PU	3A		T25-0041-05	PICKUP (KSS-213B/S-N)		
RTM	2B		T42-0683-08	MOTOR WORM ASSY		
CASSETTE DECK MECHANISM (D40-1453-05 : RXD-G3/G31 D40-1458-05 :RXD-G4/G5/G51)						
401	2C,3D		A10-3174-08	HEAD CHASSIS		
403	1D,3E		A10-3240-08	CHASSIS OUTSERT ASSY		
404	1D,2E		D01-0184-08	FLYWHEEL (LW) ASSY		
405	1E		D01-0185-08	FLYWHEEL (A) ASSY		
406	2F		D01-0186-08	FLYWHEEL (B) ASSY		
407	1C		D10-3468-18	INTER LOCK ARM (L)(A DECK)		
408	3F		D10-3469-18	INTER LOCK ARM (R)(B DECK)		
409	2D,3F		D10-3470-08	TRIGGER ARM		
410	2D,3F		D10-3471-18	HEAD CHANGE ARM		
412	1C		D10-3476-18	EJECT LEVER (L) (A DECK)		
413	3E		D10-3477-18	EJECT LEVER (R) (B DECK)		
414	2C,3D		D10-3478-08	SELET LEVER		
415	1D,2E		D10-3479-08	SHIFT LEVER		

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416	2C,3D		D10-3480-08	C/R LEVER		
420	3C		D13-0981-08	ROTATION GEAR		
421	1C,2D		D13-1616-08	REW GEAR		
422	2C,2D		D13-1617-08	REEL GEAR		
423	1D,2F		D13-1618-08	IDLER GEAR		
424	3C,3D		D13-1621-08	RETURN GEAR		
425	1D,2E		D13-1622-18	CAM GEAR		
426	2D,3E		D14-0367-08	PINCH ARM (R) ASSY		
427	2C,3D		D14-0368-08	PINCH ARM (L) ASSY		
428	1D,2F		D15-0369-08	IDLER PULLEY		
429	2F		D16-0393-08	DRIVE BELT (BW)		
430	1E		D16-0392-08	DRIVE BELT (AW)		
431	1E		D15-0387-08	PULLEY (A)		
432	1E,2F		D16-0391-08	CLUTCH BELT		
433	2C,3D		D19-0270-18	REEL CAP (A)		
434	1C,1E		D19-0287-18	CLUTCH ARM ASSY		
439	1E,1F		E35-0396-08	15P FLAT RIBBON WIRE		
440	3C		E35-1242-08	3P HEAD WIRE ASSY (A DECK)		
441	3C		E35-1243-08	5P,HEAD WIRE ASSY (B DECK)		
442	1F		E35-0986-08	MOTOR WIRE		
443	3C		G01-3790-08	EARTH SPRING (B)		
444	2D,3F		G01-3712-18	HEAD CHANGE ARM SP		
445	2C,3D		G01-3709-08	B.T SPRING		
446	1C,2D		G01-3710-08	SHIFT LEVER SP		
447	2D,3F		G01-3711-18	TRIGGER ARM SP		
448	2E,3D		G01-3720-08	HEAD RETURN PLAY SP		
449	1C,3F		G01-3713-08	EJECT SP		
450	2C,3D		G01-3714-08	C/R LEVER SP		
451	2C,3D		G01-3715-08	SELECT LEVER SP		
452	2C,3D		G01-3716-08	SHIFT SP		
453	1C		G01-3717-08	INTER LOCK SP (L)		
454	3C,3D		G01-3718-08	RETURN SP		
455	3C,3D		G01-3719-08	FWD SP		
456	2D,3F		G01-3723-08	INTER LOCK SP (R)		
457	2C,3D		G01-3739-08	HEAD CHASSIS SP		
458	2D,3E		G01-3721-08	BRAKE SP (R)		
459	1C,2E		G01-3722-08	BRAKE SP (L)		
460	1C,2E		G01-3724-08	CLUTCH ARM SPRING (B)		
461	1D,2E		G01-3725-08	CLUTCH SP		
462	1C,2D		G02-0913-08	PACK SPRING		
463	3C		G02-1068-08	AZIMUTH SP (B)		
464	2C,3D		G02-1071-08	LIFT BKT		
465	3C		G11-2100-08	HEAD WIRE CLAMP		
466	1D,2F		G11-2205-08	TUBE		
467	2D,3E		G16-0791-08	REFLECT SEAL		
469	3C		J21-6184-08	HEAD PLATE ASSY		
470	1E,2F		J19-3652-08	CABLE HOLDER		
471	2C,3D		J21-6135-08	HEAD RETURN PLATE		
472	1D		J21-6307-08	BKT (B) ASSY		
473	2D		J21-6308-08	MECHA BKT		
474	2C,3D		J42-0183-08	REEL BUSH		
475	2D,3E		J69-0086-08	FILAMENT TAPE		
476	3C,3D		J39-0188-08	HEAD BASE		
477	2C,3D		J90-0832-08	SHIFT SPRING GUIDE		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

RXD-G3/G4/G5/G31/G51

PARTS LIST

∗New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

㉙

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
AA			N19-1316-08	POLY WASHER		
AB			N19-1354-08	POLY WASHER		
AC			N19-1288-08	POLY WASHER		
AD			N19-1355-08	NYLON WASHER		
AE			N19-1385-08	POLY WASHER		
AF			N19-1386-08	POLY WASHER		
AG			N19-1387-08	TEFLON WASHER		
AH			N19-1388-08	POLY WASHER		
AK			N19-1035-08	POLY WASHER		
AL			N19-1396-08	POLY WASHER		
AM			N19-1384-08	POLY WASHER		
S			N09-1497-08	TAP TITE SCREW		
T			N09-2871-08	TAPPING SCREW		
U			N09-2876-08	HEAD SCREW (RVS)		
V			N09-3135-08	BIND TAP TITE SCREW		
W			N09-3195-08	TAP TITE SCREW		
Y			N09-2901-08	BIND TAP TITE SCREW		
Z			N09-3112-08	AZIMUTH SCREW		
480	1E,2F		S74-0033-08	REC SWITCH		
481	1E,2F		S74-0042-08	PLAY SWITCH		
484	1E,2F		T94-0233-08	SOLENOID ASSY		
485	1E,2F		T95-0125-08	PHOTO INTERRUPTER		
MM	2F		T42-0813-08	MOTOR ASSY		
PH	2C		T31-0066-08	PLAYBACK HEAD MK10P-AB215		
RPEH	3C		T31-0020-08	R/P ERASE HEAD YK56R-AA405		

L : Scandinavia **K** : USA **P** : Canada **3** : RXD-G3 **4** : RXD-G4
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **5** : RXD-G5 **31** : RXD-G31
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **51** : RXD-G51
C : China **I** : Malaysia ⚠ indicates safety critical components.

RXD-G3/G4/G5/G31/G51

SPECIFICATIONS

Main unit (RXD-G3)

[Amplifier section]

Rated power output

50 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 15 kHz with no more than 0.5 % total harmonic distortion. (FTC)

Input sensitivity / impedance	
AUX	200 mV / 47 kΩ
MIC	2.1 mV / 2.2 kΩ
Signal to noise ratio	
AUX	86 dB (IHF'66)

[FM Tuner section]

Tuning frequency range	87.5 MHz ~ 108 MHz

[AM Tuner section]

Tuning frequency range	530 kHz ~ 1,700 kHz

[Cassette deck section]

Track	4-track, 2-channel stereo
Recording system	AC bias system (Frequency: 105 kHz)
Heads	
A deck Playback head	1
B deck Playback / recording head	1
Erasing head	1
Motors	1
Fast winding time	Approx. 120 seconds (C-60 tape)

[CD player section]

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Wow & Flutter	Unmeasurable Limit

General

Power consumption	150 W
Dimensions	W: 270 mm (10-5/8") H: 305 mm (12") D: 342 mm (13-7/16")
Weight (net)	8.8 kg (19.4 lb)

Main unit (RXD-G4)

[Amplifier section]

Rated power output

70 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 15 kHz with no more than 0.5 % total harmonic distortion. (FTC)

Input sensitivity / impedance	
AUX	200 mV / 47 kΩ
MIC	2.1 mV / 2.2 kΩ
Signal to noise ratio	
AUX	86 dB (IHF'66)

[FM Tuner section]

Tuning frequency range	87. 5MHz ~108 MHz

[AM Tuner section]

Tuning frequency range	530 kHz ~1,700 kHz

[Cassette deck section]

Track	4-track, 2-channel stereo
Recording system	AC bias system (Frequency : 105 kHz)
Heads	
A deck Playback head	1
B deck Playback / recording head	1
Erasing head	1
Motors	1
Fast winding time	Approx.120 seconds (C-60 tape)

[CD player section]

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Wow & Flutter	Unmeasurable Limit

General

Power consumption	180 W
Dimensions	W: 270 mm (10-5/8") H: 305 mm (12") D: 342 mm (13-7/16")
Weight (net)	9.4 kg (20.7lb)

SPECIFICATIONS

Main unit (RXD-G5)

[Amplifier section]

Rated power output

STEREO MODE

70 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 15 kHz with no more than 0.5 % total harmonic distortion.

SURROUND MODE
  CENTER .... 15 W (1 kHz, 8 Ω,10 % T.H.D.)
  REAR .... 10 W +10 W (1 kHz, 8 Ω,10 % T.H.D.)
Input sensitivity / Impedance
  AUX .... 200 mV / 47 kΩ
  MIC .... 2.1 mV / 2.2kΩ
Signal to noise ratio
  AUX .... 86 dB (IHF'66)

[FM Tuner section]

Tuning frequency range .... 87.5 MHz ~ 108 MHz

[AM Tuner section]

Tuning frequency range .... 530 kHz ~ 1,700 kHz

[Cassette deck section]

Track .... 4-track, 2-channel stereo
Recording system .... AC bias system
(Frequency : 105kHz)

Heads
  A deck Playback head 1
  B deck Playback / recording head 1
    Erasing head 1
Motors 1
Fast winding time .... Approx. 120 seconds
(C-60 tape)

[CD player section]

Laser .... Semiconductor laser
Playing rotation .... 200 rpm ~ 500 rpm (CLV)
Wow & Fluter .... Unmeasurable Limit

General
Power consumption .... 180 W
Dimensions .... W: 270 mm (10-5/8")
H: 305 mm (12")
D: 342 mm (13-3/8")
Weight (net) .... 10.2 kg (22.5 lb)

UD COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

RXD-F3/F4/F41/F42
SERVICE MANUAL
(UD-303/403/413/433/523/533)

KENWOOD

© 1995-8 PRINTED IN KOREA
B51-5091-00 (K) 4180

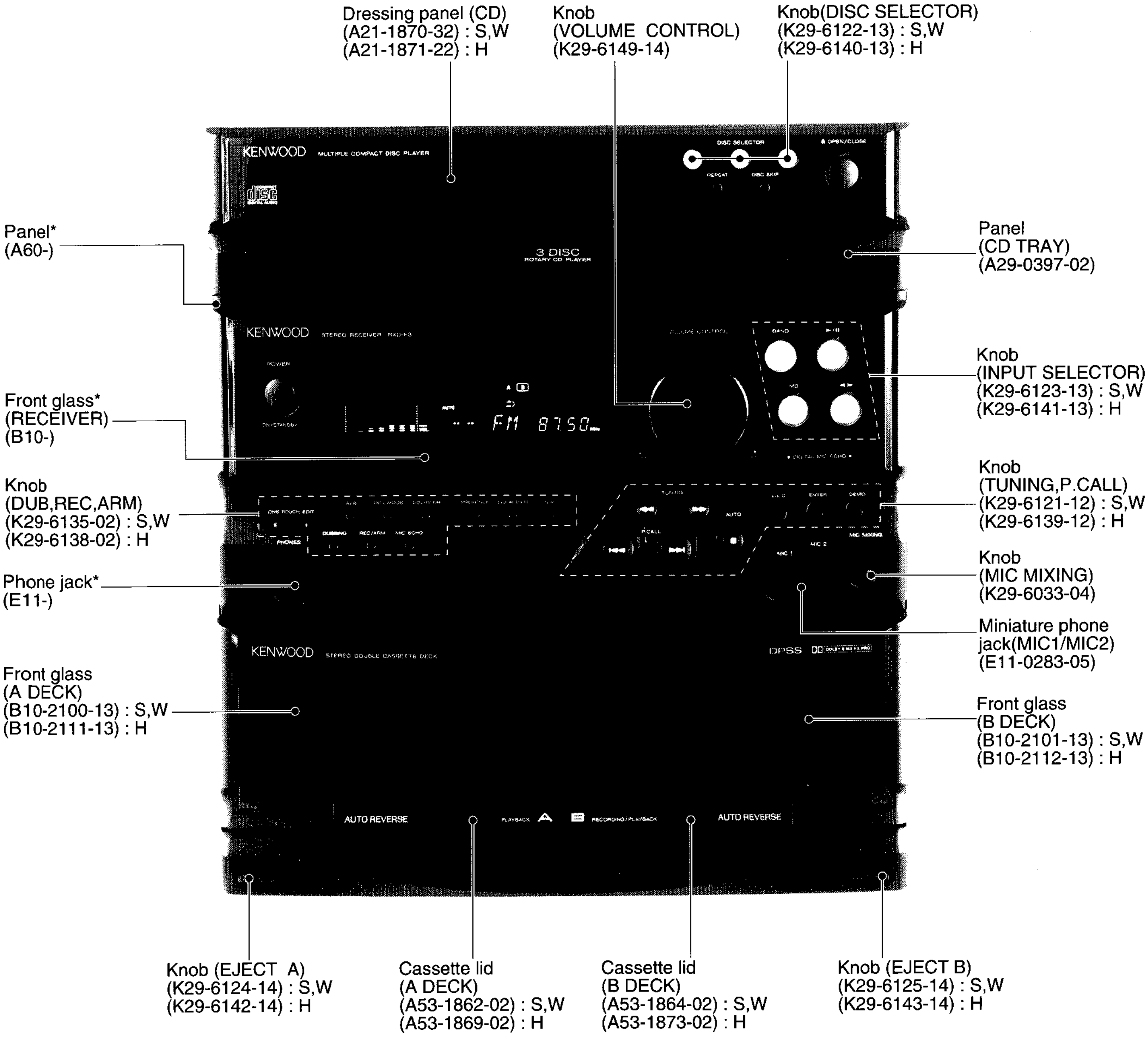
Dressing panel (CD)
(A21-1870-32) : S,W
(A21-1871-22) : H
Knob
(VOLUME CONTROL)
(K29-6149-14)
Knob(DISC SELECTOR)
(K29-6122-13) : S,W
(K29-6140-13) : H
Panel*
(A60-)
Panel
(CD TRAY)
(A29-0397-02)
Knob
(INPUT SELECTOR)
(K29-6123-13) : S,W
(K29-6141-13) : H
Front glass*
(RECEIVER)
(B10-)
Knob
(DUB,REC,ARM)
(K29-6135-02) : S,W
(K29-6138-02) : H
Knob
(TUNING,P.CALL)
(K29-6121-12) : S,W
(K29-6139-12) : H
Phone jack*
(E11-)
Knob
(MIC MIXING)
(K29-6033-04)
Miniature phone
jack(MIC1/MIC2)
(E11-0283-05)
Front glass
(A DECK)
(B10-2100-13) : S,W
(B10-2111-13) : H
Front glass
(B DECK)
(B10-2101-13) : S,W
(B10-2112-13) : H
Knob (EJECT A)
(K29-6124-14) : S,W
(K29-6142-14) : H
Cassette lid
(A DECK)
(A53-1862-02) : S,W
(A53-1869-02) : H
Cassette lid
(B DECK)
(A53-1864-02) : S,W
(A53-1873-02) : H
Knob (EJECT B)
(K29-6125-14) : S,W
(K29-6143-14) : H
KENWOOD
3 DISC
FM 87.50
AUTO REVERSE
AUTO REVERSE
DPSS

Photo is RXD-F3 M type. (It's like RXD-F41)
S:SINGAPORE made
W:MALAYSIA made
H:HUIZHOU made

***Refer to parts list on page 79.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

PRECAUTIONS FOR REPAIR

- For the operation of the CD and the cassette (A or B deck) mechanism,see Service Manual(B51-4869-00) of RXD-C3/C3L.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

CONTENTS / ACCESSORIES

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CASSETTE DECK section 33
TUNER section 34

AJUSTES

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CASSETTE DECK sección 37
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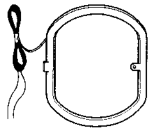
EXPLODED VIEW (UNIT) 77
PARTS LIST 79
SPECIFICATIONS ....Back cover

IC description, refer to circuit description of the service manual.

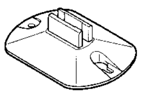
PCB No.	Ref. No.	IC Parts No.	Function	Service manual	On page
X09	IC302	**LC7218**	PLL, IF COUNT	**T-7J**	P15
X28	IC4	**UPC1297CA**	HX-PRO	**KX-1100EX**	P12
X32	IC1	**CXA1782BQ**	RF/SERVO	**DP-ME9**	P9

Accessories

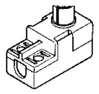
AM loop antenna ....(1)
(T90-0195-05)



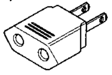
Loop antenna stand (1)
(J19-3645-05)



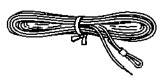
Antenna Adaptor...............(1)
(For U.K. and Europe)
(T90-0198-05)or
(T90-0801-05)



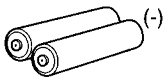
AC plug adaptor...................(1)
(Except for the U.S.A., Canada,Mexico,Europe, U.K. and Australia)
(E03-0115-05)



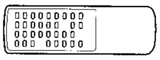
FM indoor antenna ....(1)
(T90-0182-15)



Batteries (R6/AA)............(2)



Remote control unit ....(1)
(A70-1020-05) : RC-F3 (RXD-F3/F41/F42)
(A70-1018-05) : RC-F4 (RXD-F4)

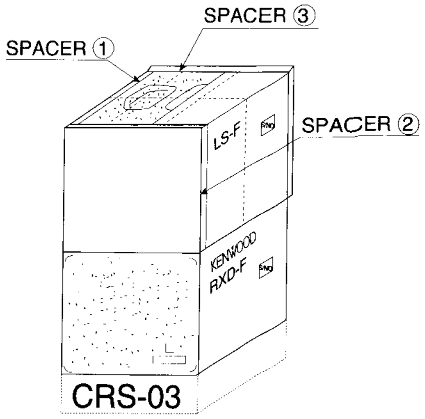


(BATTERY COVER : A09-0170-08)

For the unit with a European AC plug in areas other than Europe.
Refer to **LS-F41** of service manual (B51-5063-00) about them.

System configuration

SYSTEM NAME	MAIN UNIT	SPEAKERS	OVER CARTON		SPACER	
UD-303	RXD-F3/L	LS-F3	(K) H60-0320-04	(P,R) H60-0319-04	(K) ① H12-2247-04 ② H12-2248-04	(P,R) ① H12-2241-04 ② H12-2243-04
(K,P,R,M,Y,X) UD-403	RXD-F4	LS-F3 (K)addition CRS-03	(K) H60-0338-04	(P,R,M,Y,X) H60-0337-04	(K) ① H12-2246-04 ③ H12-2248-04	(P,R) ① H12-2241-04 ② H12-2243-04
(E,T,G) UD-403	RXD-F4/L	LS-F4				
UD-413	RXD-F41	LS-F41	(K) H60-0341-04	(P,R) H60-0340-04	(K,P,R) ① H12-2257-04 ② H12-2256-04	
UD-433	RXD-F3	LS-F3	(M,Y,X) H60-0346-04		(M,Y,X) ① H12-2241-04 ② H12-2243-04	
UD-523	RXD-F42	LS-F4	(M) H60-0318-04		① H12-2244-04	
UD-533	RXD-F4	LS-F4	(M,Y,X) H60-0345-04		① H12-2244-04	



EXTERNAL VIEW / CAUTION

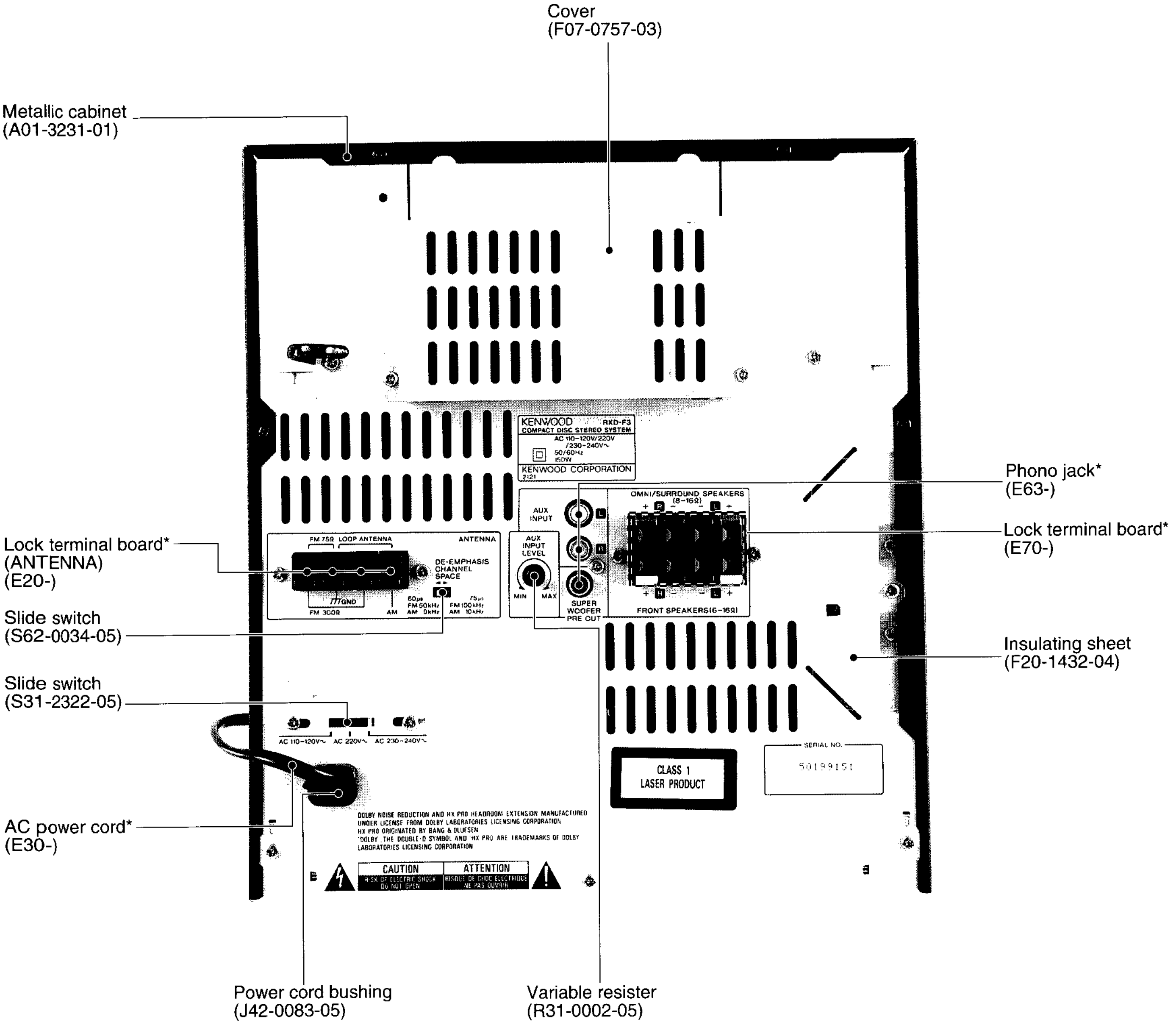

Cover
(F07-0757-03)
Metallic cabinet
(A01-3231-01)
Phono jack*
(E63-)
Lock terminal board*
(E70-)
Lock terminal board*
(ANTENNA)
(E20-)
Slide switch
(S62-0034-05)
Insulating sheet
(F20-1432-04)
Slide switch
(S31-2322-05)
AC power cord*
(E30-)
Power cord bushing
(J42-0083-05)
Variable resister
(R31-0002-05)

Photo is RXD-F3 M type(It's like RXD-F41)

***Refer to parts list on page 79.**

Caution

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

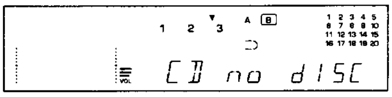
Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.

●Press the CD(▶/II) key to check that no disc is present on the tray.

2. Wait a few seconds and verify that the display shown appears.

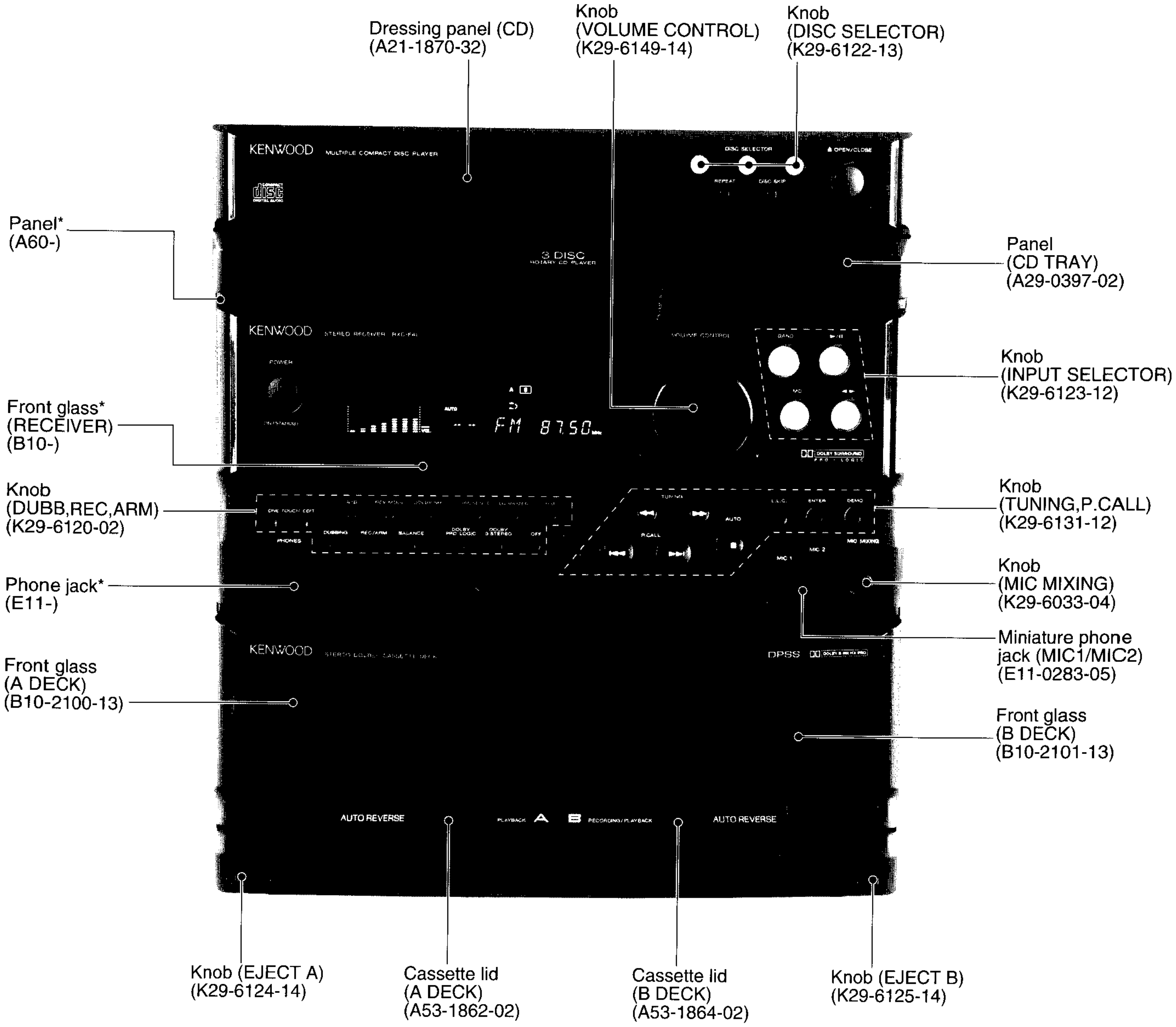


3. Turn the power OFF.

RXD-F3/F4/F41/F42

EXTERNAL VIEW / INSTRUCTION MANUAL

Photo is RXD-F4L (It's like RXD-F42)


Dressing panel (CD)
(A21-1870-32)
Knob
(VOLUME CONTROL)
(K29-6149-14)
Knob
(DISC SELECTOR)
(K29-6122-13)
Panel*
(A60-)
Panel
(CD TRAY)
(A29-0397-02)
Knob
(INPUT SELECTOR)
(K29-6123-12)
Front glass*
(RECEIVER)
(B10-)
Knob
(DUBB,REC,ARM)
(K29-6120-02)
Knob
(TUNING,P.CALL)
(K29-6131-12)
Phone jack*
(E11-)
Knob
(MIC MIXING)
(K29-6033-04)
Miniature phone
jack (MIC1/MIC2)
(E11-0283-05)
Front glass
(A DECK)
(B10-2100-13)
Front glass
(B DECK)
(B10-2101-13)
Knob (EJECT A)
(K29-6124-14)
Cassette lid
(A DECK)
(A53-1862-02)
Cassette lid
(B DECK)
(A53-1864-02)
Knob (EJECT B)
(K29-6125-14)
KENWOOD
3 DISC
FM 87.50
AUTO REVERSE
A
B
AUTO REVERSE
DPSS

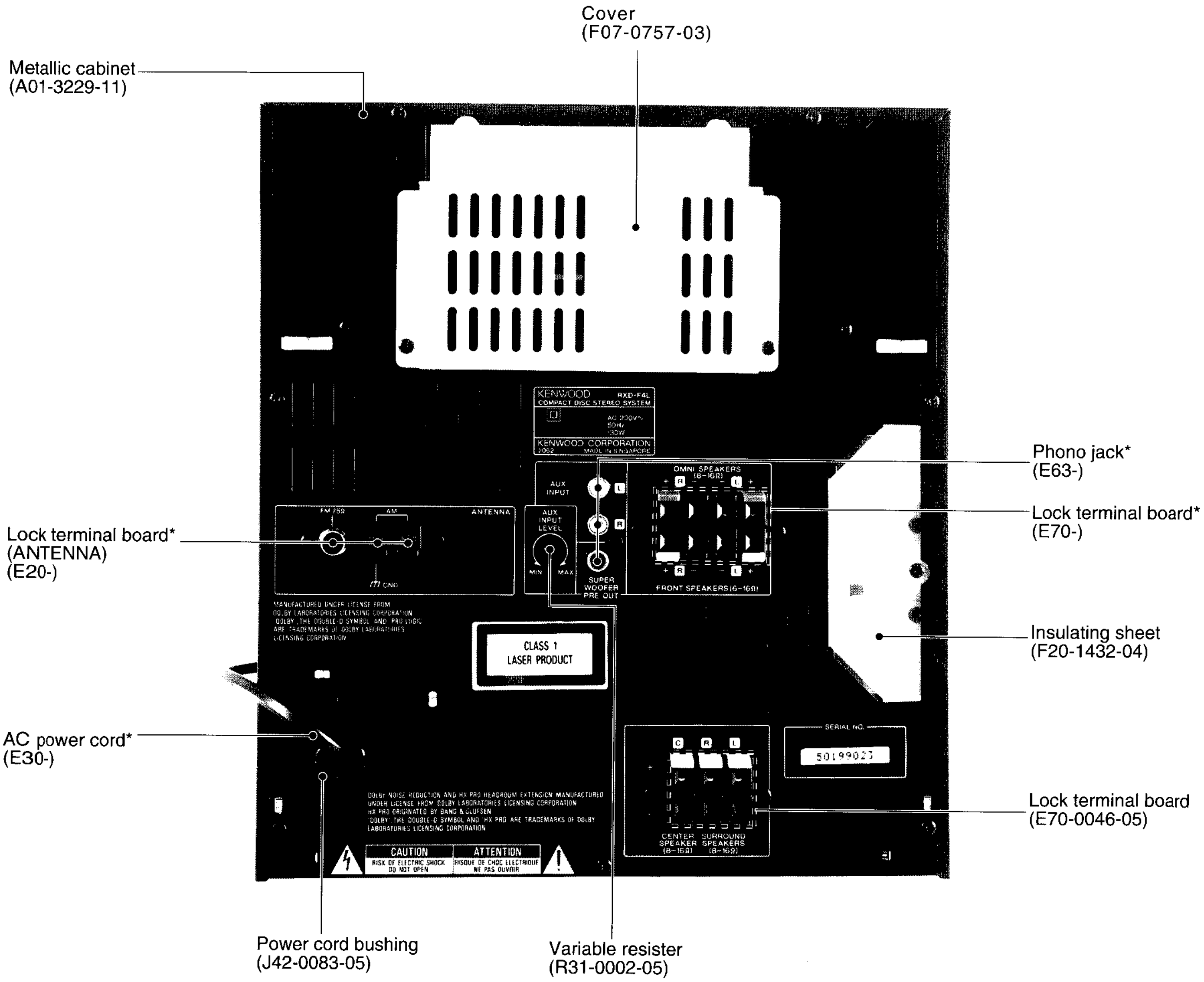
Instruction Manual

Language	System	Parts No.	Destination
ENGLISH	UD-303	B60-2170-00	T
	UD-303	B60-2171-00	KRP
	UD-433	B60-2255-00	MXI
	UD-403	B60-2145-00	KT
	UD-533	B60-2251-00	YMX
	UD-403	B60-2334-00	KRP
	UD-413	B60-2179-00	KRP
	UD-523	B60-2144-00	MI
FRENCH	UD-303	B60-2172-00	PE
	UD-403	B60-2146-00	E
	UD-403	B60-2335-00	P
	UD-413	B60-2180-00	P
GERMANY	UD-303	B60-2173-00	EG
	UD-403	B60-2147-00	EG

Language	System	Parts No.	Destination
DUTCH	UD-303	B60-2174-00	E
	UD-403	B60-2148-00	E
ITALYAN	UD-303	B60-2175-00	E
	UD-403	B60-2149-00	E
SPANISH	UD-303	B60-2176-00	RE
	UD-433	B60-2256-00	M
	UD-403	B60-2151-00	E
	UD-533	B60-2252-00	M
	UD-403	B60-2336-00	R
	UD-413	B60-2181-00	R
CHINESES	UD-433	B60-2177-10	MI
	UD-523	B60-2152-10	MI
TIWANESE	UD-433	B60-2178-10	M
	UD-523	B60-2153-10	M

EXTERNAL VIEW

Photo is RXD-F4L (It's like RXD-F42 Except ANTENNA terminal)

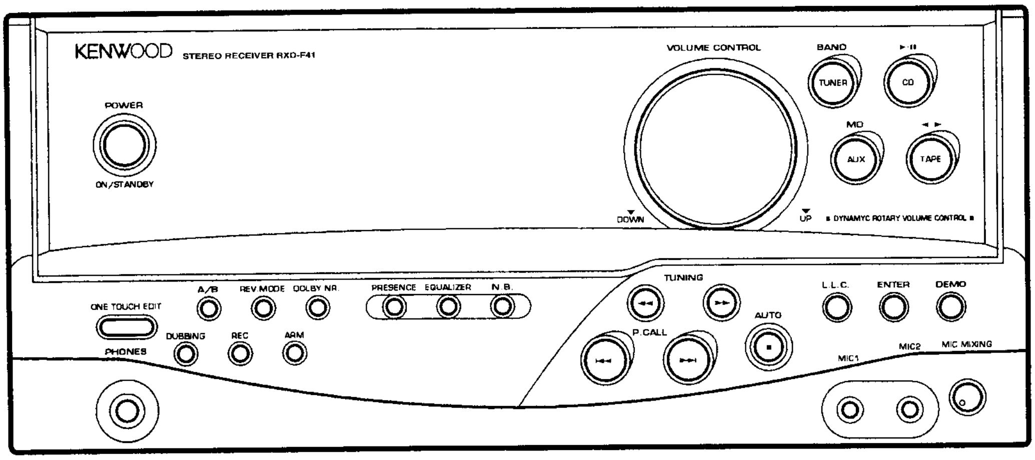

Cover
(F07-0757-03)
Metallic cabinet
(A01-3229-11)
Phono jack*
(E63-)
Lock terminal board*
(E70-)
Lock terminal board*
(ANTENNA)
(E20-)
Insulating sheet
(F20-1432-04)
AC power cord*
(E30-)
Lock terminal board
(E70-0046-05)
Power cord bushing
(J42-0083-05)
Variable resister
(R31-0002-05)
KENWOOD RXD-F4L
COMPACT DISC STEREO SYSTEM
KENWOOD CORPORATION
AUX INPUT
AUX INPUT LEVEL
MIN
MAX
SUPER WOOFER PRE OUT
OMNI SPEAKERS
FRONT SPEAKERS (6-16Ω)
ANTENNA
FM 75Ω
AM
GND
CLASS 1 LASER PRODUCT
SERIAL NO.
CENTER SPEAKER (8-16Ω)
SURROUND SPEAKERS (8-16Ω)
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
ATTENTION
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

RXD-F3/F4/F41/F42

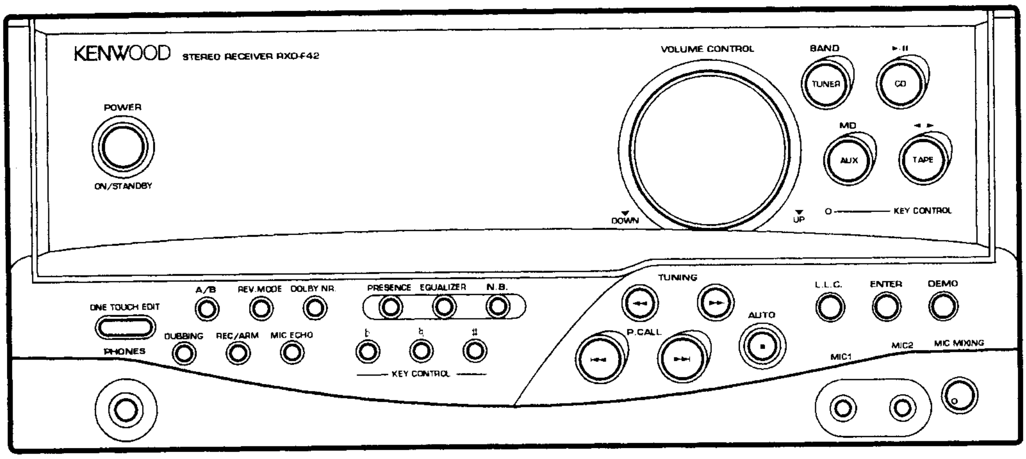
EXTERNAL VIEW / REMOTE CONTROL

Front panel difference point

[RXD-F41]

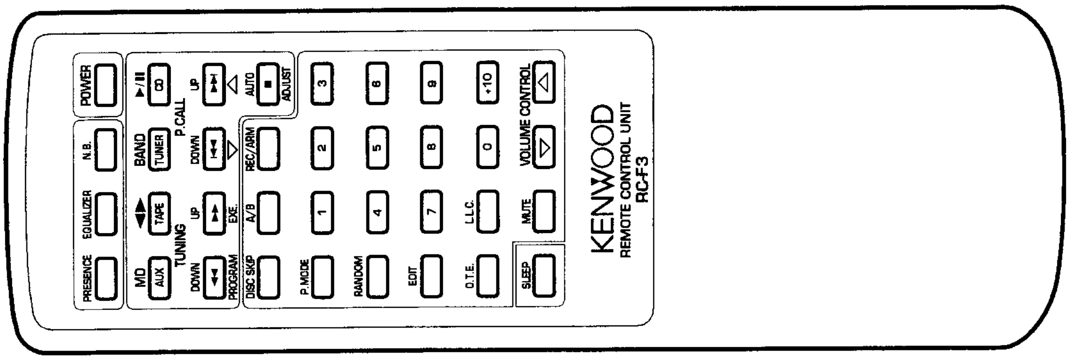

KENWOOD
STEREO RECEIVER RXD-F41
POWER
ON/STANDBY
VOLUME CONTROL
DOWN
UP
DYNAMYC ROTARY VOLUME CONTROL
BAND
TUNER
CD
MD
AUX
TAPE
ONE TOUCH EDIT
PHONES
A/B
REV MODE
DOLBY NR
PRESENCE
EQUALIZER
N.B.
DUBBING
REC
ARM
TUNING
P.CALL
AUTO
L.L.C.
ENTER
DEMO
MIC1
MIC2
MIC MIXING

[RXD-F42]

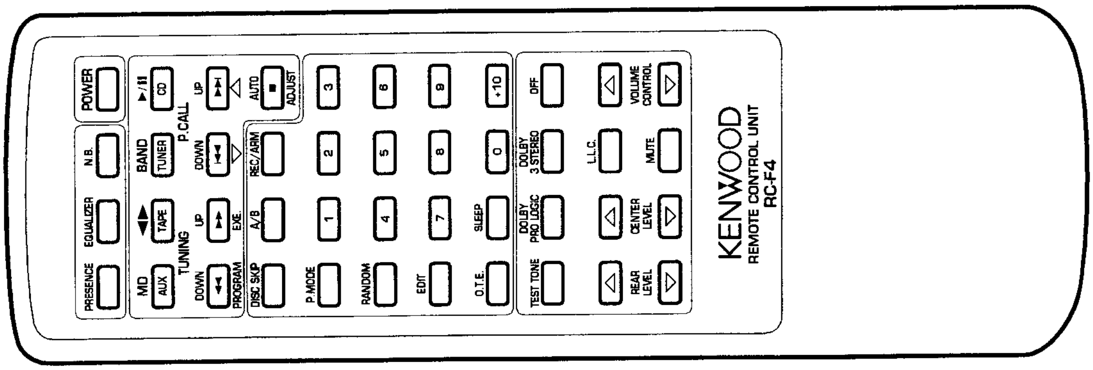

KENWOOD
STEREO RECEIVER RXD-F42
POWER
ON/STANDBY
VOLUME CONTROL
DOWN
UP
KEY CONTROL
BAND
TUNER
CD
MD
AUX
TAPE
ONE TOUCH EDIT
PHONES
A/B
REV MODE
DOLBY NR
PRESENCE
EQUALIZER
N.B.
DUBBING
REC/ARM
MIC ECHO
♭
♮
♯
KEY CONTROL
TUNING
P.CALL
AUTO
L.L.C.
ENTER
DEMO
MIC1
MIC2
MIC MIXING

Remote control unit

[RXD-F3/F3L/F41/F42]


POWER
N.B.
EQUALIZER
PRESENCE
►/II
CD
BAND
TUNER
TAPE
MD
AUX
P.CALL
UP
DOWN
TUNING
AUTO
■
ADJUST
EXE.
PROGRAM
REC/ARM
A/B
DISC SKIP
3
2
1
P.MODE
6
5
4
RANDOM
9
8
7
EDIT
+10
0
L.L.C.
O.T.E.
VOLUME CONTROL
MUTE
SLEEP
KENWOOD
REMOTE CONTROL UNIT
RC-F3

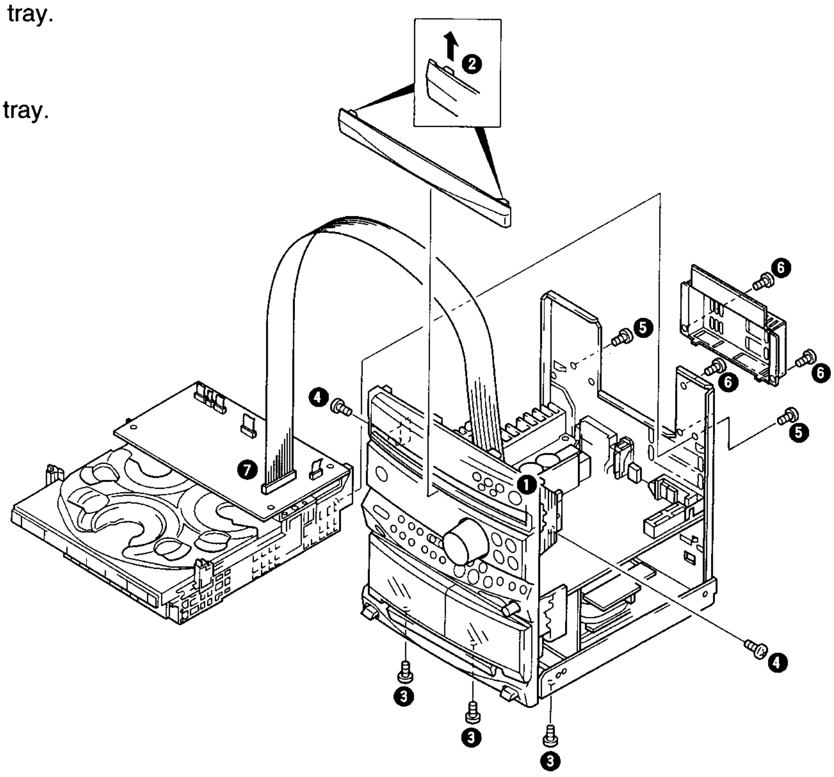
[RXD-F4]


POWER
N.B.
EQUALIZER
PRESENCE
►/II
CD
BAND
TUNER
TAPE
MD
AUX
P.CALL
UP
DOWN
TUNING
AUTO
■
ADJUST
EXE.
PROGRAM
REC/ARM
A/B
DISC SKIP
3
2
1
P.MODE
6
5
4
RANDOM
9
8
7
EDIT
+10
0
SLEEP
O.T.E.
OFF
DOLBY 3 STEREO
DOLBY PRO LOGIC
TEST TONE
L.L.C.
CENTER LEVEL
REAR LEVEL
VOLUME CONTROL
MUTE
KENWOOD
REMOTE CONTROL UNIT
RC-F4

DISASSEMBLY FOR REPAIR

[Remove the CD player]

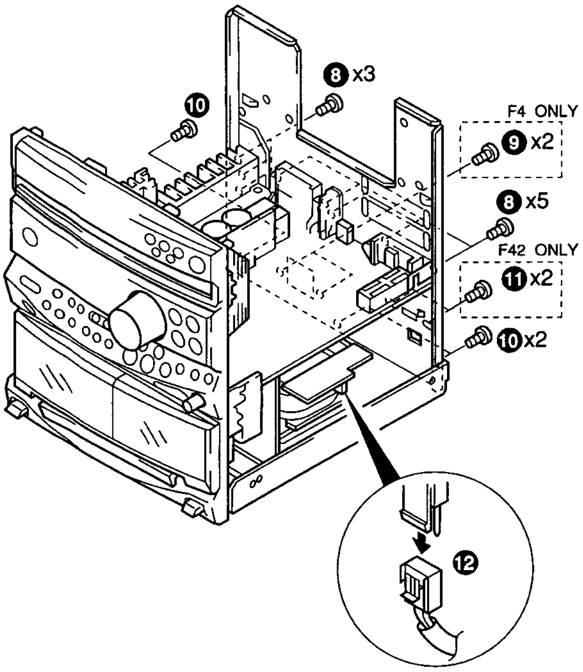
1. Push the OPEN/CLOSE key(❶), then open the CD tray.
2. Lift the left and right sides(❷) of
   the CD player front cover upward and remove it.
3. Push the OPEN/CLOSE key(❶) then close the CD tray.
4. Remove the 3 screws(❸) of the bottom.
5. Remove the 9 screws(❹ ~ ❻), then remove
   the CD mechanism(❼).

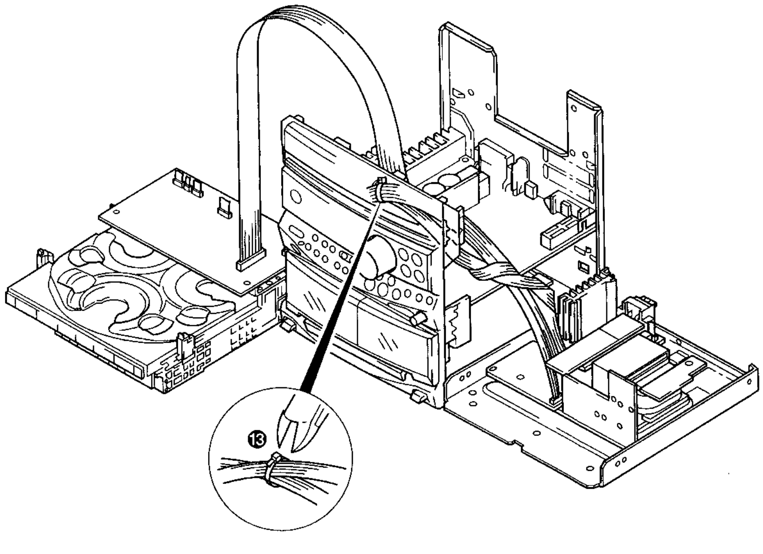

❷
❻
❺
❻
❻
❹
❺
❼
❶
❹
❸
❸
❸

[Remove the chassis]

1. Remove the 15 screws(❽~⓫)
   and the connector (X09, CN7) (⓬) of RXD-F42

2. Cut the lead wire(⓭), then remove the chassis.


❽x3
❿
F4 ONLY
❾x2
❽x5
F42 ONLY
⓫x2
❿x2
⓬



DISASSEMBLY FOR REPAIR

[CD mechanism section]

1) How to detach the tray

1. From the rear side of the CD mechanism, use a screw driver or the like to turn the friction arm (❶) fully counterclockwise.
2. Remove the two bracket attachment screws(❷).
3. Remove the tray in the arrow direction(❹).

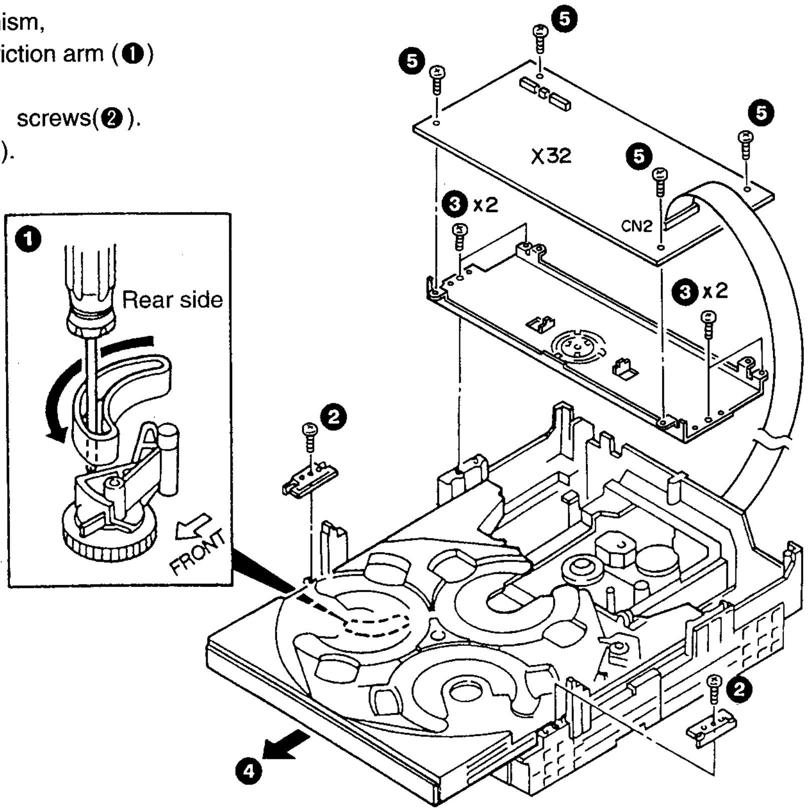


FIG. 1

2) How to attach the tray

1. Check to make sure the rollers on each side (two rollers) have not come off. Move the friction gear by hand in the direction of arrow(❶), align the groove on the rear side of the slide tray with the friction gear shaft and insert the slide tray.
2. Align the grooves on both sides of the slide tray with the main chassis' guides(❷) and insert the slide tray as far back as it will go.
3. Attach the brackets on both sides(two brackets).

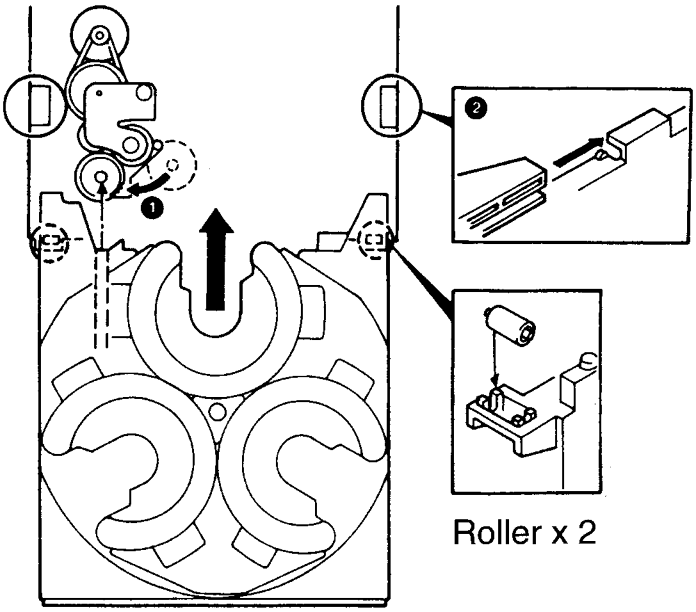


FIG. 2

DISASSEMBLY FOR REPAIR

3) Replacing the pickup

1. Remove the two clamp bracket attachment screws.(Fig.1 ❸).
2. Remove the four screws affixing the lift slider and lift out the lift slider and traverse unit.

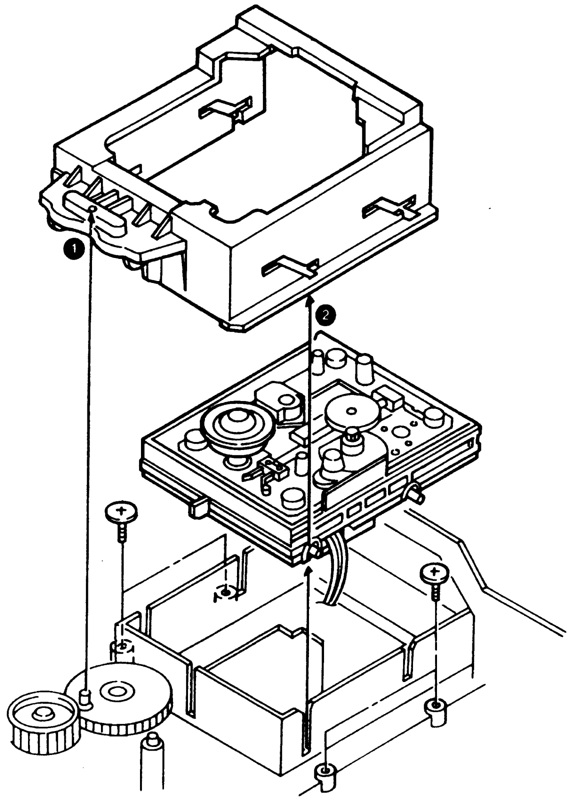


FIG. 3

3. Short the short land.
4. Remove the connector of the flat cable.
5. Remove the gear.
6. Remove the shaft.

※When reassembling, always be sure to align the cam gear and traverse shaft as shown in ❶ and ❷ of Fig ❸. Then remove a tool of the short land.

Note : Don't separate pickup PC board from pickup.

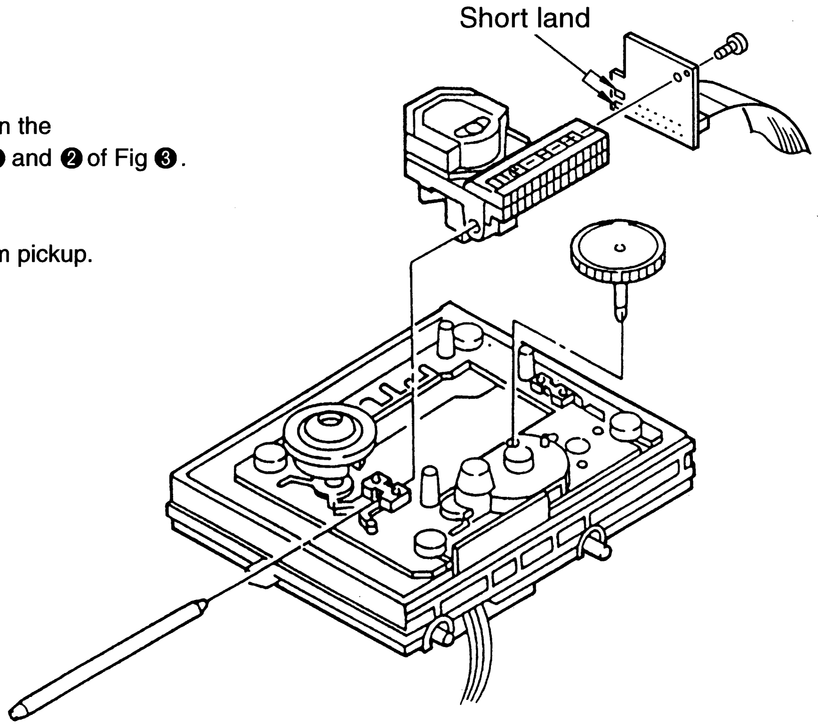


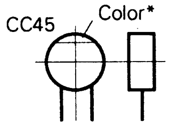
FIG. 4

PARTS DESCRIPTION

CAPACITORS

CC	45	TH	1H	220	J
1	2	3	4	5	6

1 = Type … ceramic, electrolytic, etc.
2 = Shape … round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
Multiplier
2nd number
1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	–80	–150	–220	–330	–470	–750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = –470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 –20	+80 - 20	+100 –0	More than 10μF – 10 ~ +50 Less than 4.7μF –10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word / 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	–
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	–
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	–

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
☐ ☐ ☐ ☐ ☐ ☐ ☐
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
☐ ☐ ☐ ☐ ☐ ☐ ☐
1 2 3 4 5 6 7
(Chip) (B, F)

☐ Refer to the table above.

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

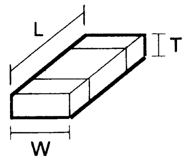
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
☐ ☐ ☐ ☐ ☐ ☐ ☐
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
☐ ☐ ☐ ☐ ☐ ☐ ☐
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

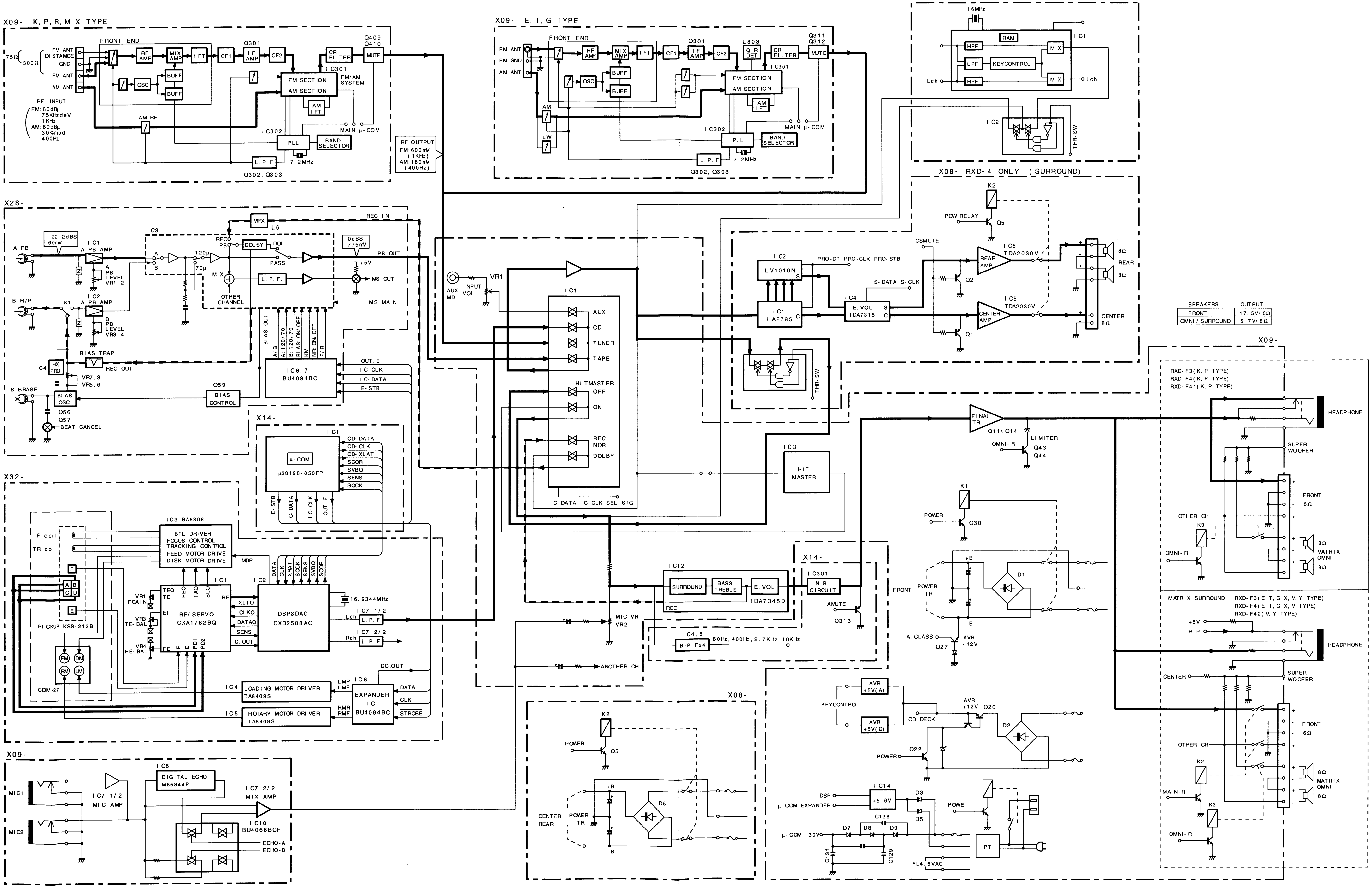
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

RXD-F3/F4/F41/F42 RXD-F3/F4/F41/F42

BLOCK DIAGRAM


X09- K, P, R, M, X TYPE
FRONT END
FM ANT
DISTANCE
GND
FM ANT
AM ANT
75Ω
300Ω
RF AMP
MIX AMP
IFT
CF1
IF AMP
CF2
CR FILTER
MUTE
Q301
Q409
Q410
OSC
BUFF
FM SECTION
AM SECTION
FM/AM SYSTEM
IC301
AM IFT
AM RF
IC302
PLL
BAND SELECTOR
L.P.F
7.2MHz
Q302, Q303
MAIN μ-COM
RF INPUT
FM: 60dBμ 75KHz deV 1KHz
AM: 60dBμ 30%mod 400Hz
RF OUTPUT
FM: 600mV (1KHz)
AM: 180mV (400Hz)
X09- E, T, G TYPE
FM ANT
FM GND
AM ANT
Q311
Q312
L303
Q.R DET
AM
LW
X11- RXD-42 ONLY
16MHz
HPF
LPF
RAM
KEYCONTROL
MIX
IC1
IC2
Lch
THR-SW
X28-
A PB
B R/P
-22.2dBS 60mV
IC1 A PB AMP
IC2 A PB AMP
A PB LEVEL VR1, 2
B PB LEVEL VR3, 4
K1
IC3
RECO PB
DOLBY
DOL
PASS
120μ
70μ
MIX
OTHER CHANNEL
L.P.F.
0dBS 775mV
PB OUT
+5V
MS OUT
MS MAIN
MPX
L6
REC IN
BIAS TRAP
REC OUT
IC4 HX PRO
VR7, 8
VR5, 6
B BRASE
BIAS OSC
Q56
Q57
BEAT CANCEL
Q59
BIAS CONTROL
BIAS OUT
A/B
A.120/70
B.120/70
BIAS ON/OFF
KM
NR ON/OFF
P/R
IC6, 7
BU4094BC
OUT.E
IC-CLK
IC-DATA
E-STB
X14-
IC1
μ-COM
μ38198-050FP
CD-DATA
CD-CLK
CD-XLAT
SCOR
SVBQ
SENS
SQCK
AUX MD
INPUT VOL
VR1
AUX
CD
TUNER
TAPE
HI TMASTER
OFF
ON
REC
NOR
DOLBY
IC-DATA IC-CLK SEL-STG
IC3
HIT MASTER
X32-
F.coil
TR.coil
IC3: BA6398
BTL DRIVER
FOCUS CONTROL
TRACKING CONTROL
FEED MOTOR DRIVE
DISK MOTOR DRIVE
MDP
PICKUP KSS-213B
VR1 FGAIN
VR3 TE-BAL
VR4 FE-BAL
RF/SERVO
CXA1782BQ
TEO
TEI
FEO
TAO
SLO
EI
FE
PD1
PD2
IC2
DSP&DAC
CXD2508AQ
XLTO
CLKO
DATAO
SENS
C.OUT
16.9344MHz
IC7 1/2
IC7 2/2
Lch
Rch
L.P.F
CDM-27
DC.OUT
IC4 LOADING MOTOR DRIVER TA8409S
IC5 ROTARY MOTOR DRIVER TA8409S
LMP LMF
RMR RMF
IC6 EXPANDER IC BU4094BC
DATA
CLK
STROBE
X09-
MIC1
MIC2
IC7 1/2 MIC AMP
IC8 DIGITAL ECHO M65844P
IC7 2/2 MIX AMP
IC10 BU4066BCF
ECHO-A
ECHO-B
MIC VR
VR2
ANOTHER CH
IC12
SURROUND
BASS TREBLE
E.VOL
TDA7345D
REC
IC4, 5
B.P.Fx4
60Hz, 400Hz, 2.7KHz, 16KHz
X14-
IC301
N.B CIRCUIT
AMUTE
Q313
X08- RXD-4 ONLY (SURROUND)
K2
POW RELAY
Q5
CSMUTE
IC2 LV1010N
IC1 LA2785
PRO-DT PRO-CLK PRO-STB
S-DATA S-CLK
IC4 E.VOL TDA7315
Q2
Q1
IC6 TDA2030V
REAR AMP
IC5 TDA2030V
CENTER AMP
8Ω
REAR
CENTER 8Ω
FINAL TR.
Q11\Q14
OMNI-R
LIMITER
Q43
Q44
K1
POWER
Q30
+B
-B
D1
FRONT
POWER TR
A.CLASS
Q27
AVR -12V
X08-
K2
POWER
Q5
D5
CENTER
REAR
KEYCONTROL
AVR +5V(A)
AVR +5V(D)
CD DECK
AVR +12V
Q20
D2
Q22
DSP
μ-COM EXPANDER
IC14
+5.6V
D3
D5
POWE
μ-COM -30V
D7
D8
D9
C128
C131
C129
PT
FL4 5VAC
X09-
RXD-F3(K, P TYPE)
RXD-F4(K, P TYPE)
RXD-F41(K, P TYPE)
HEADPHONE
SUPER WOOFER
FRONT 6Ω
OTHER CH
K3
OMNI-R
MATRIX OMNI 8Ω
MATRIX SURROUND
RXD-F3(E, T, G, X, M, Y TYPE)
RXD-F4(E, T, G, X, M TYPE)
RXD-F42(M, Y TYPE)
+5V
H.P
CENTER
MAIN-R
K2
K3

SPEAKERS	OUTPUT
FRONT	17.5V/ 6Ω
OMNI / SURROUND	5.7V/ 8Ω

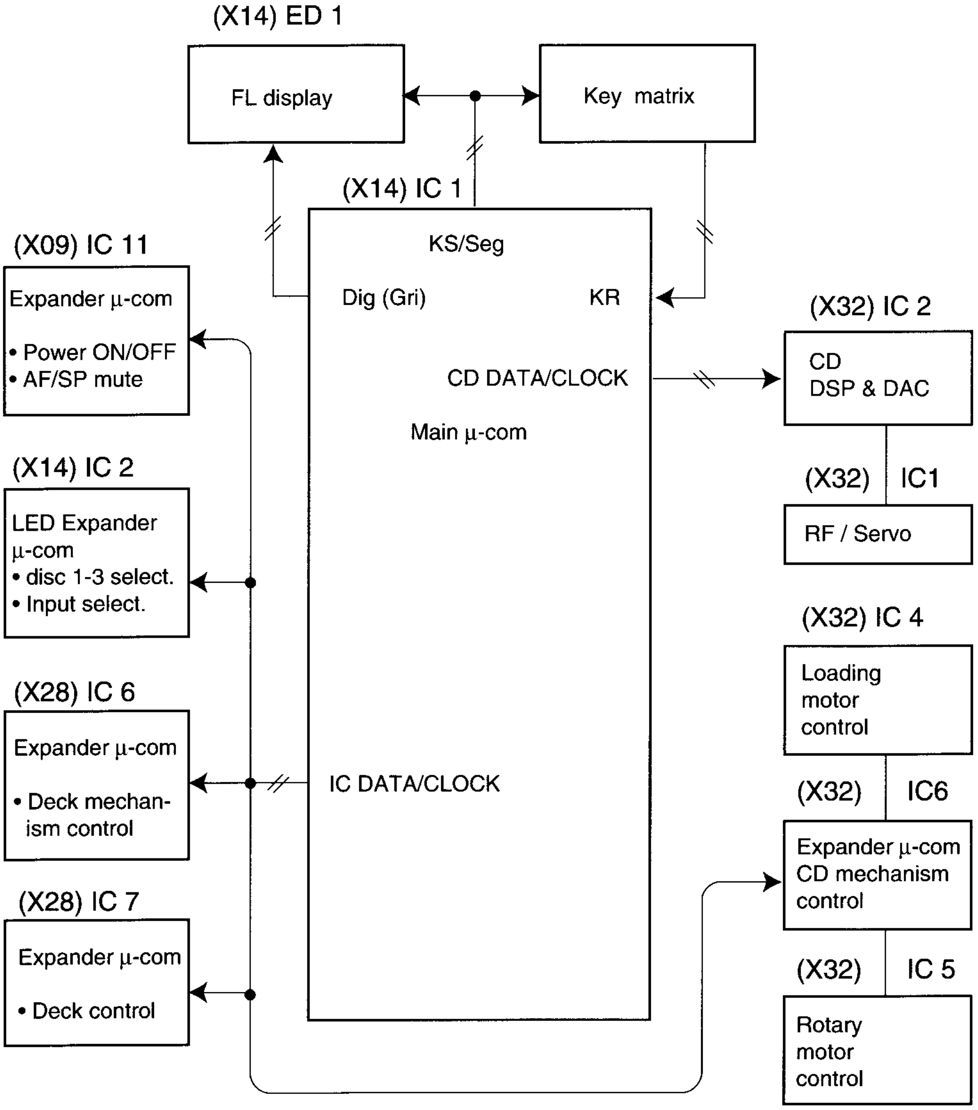
CIRCUIT DESCRIPTION

1. MAIN μ-COM (M38198MC-053FP) (X14 : IC 1) : CD,Display

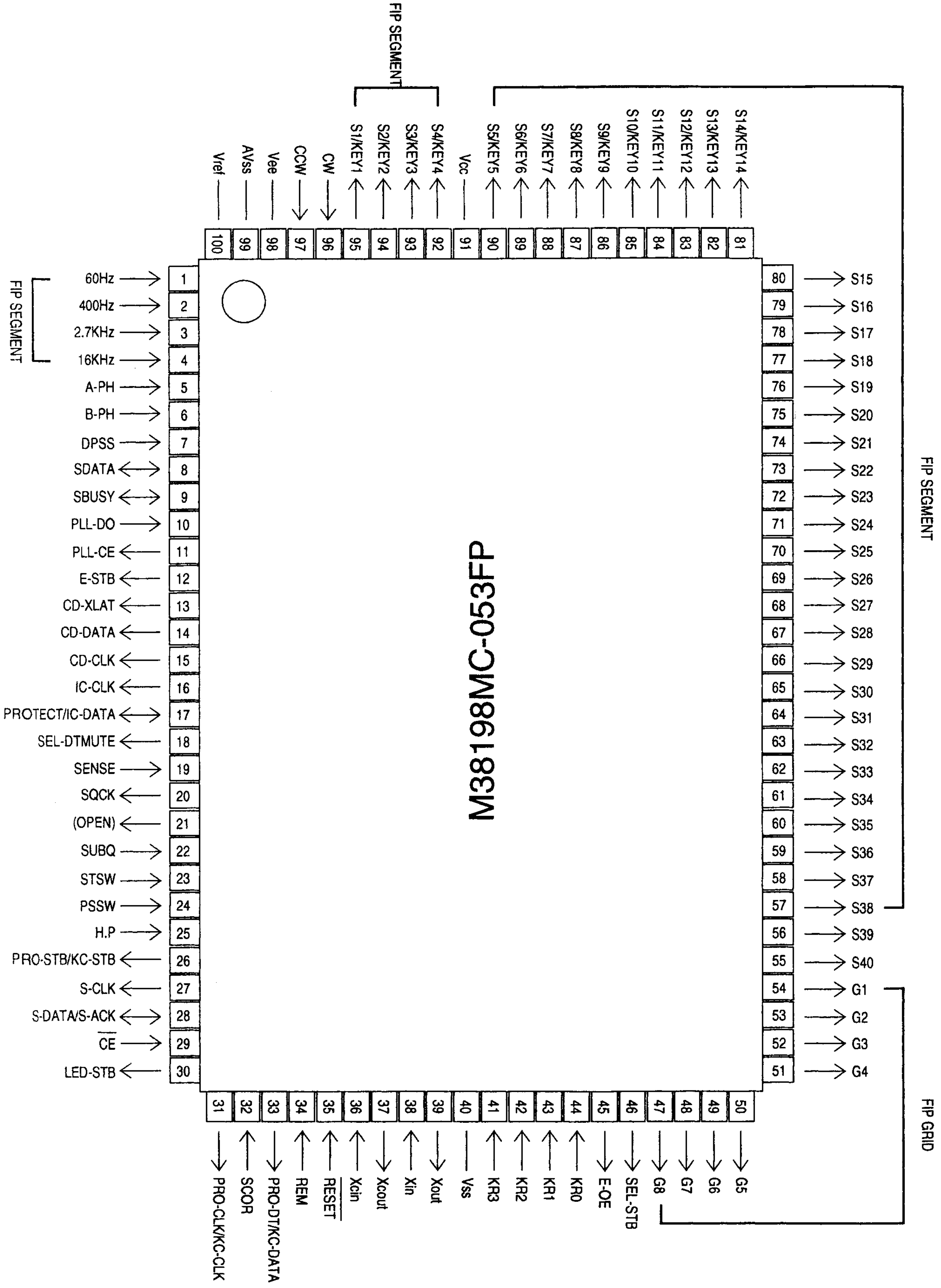
1.1 Function

		RXD-F2			RXD-F3			RXD-F4	RXD-F41	RXD-F42
		K,P,R	X,T,E,G	M,Y	K,P,R	X,T,E,G	M	M,X,Y,T,E,G	K,P,R	M
	CD Player	3 DISC								
Tuner	FM Stereo	○								
	LW		T only			T only		T only		
AMP	POWER	30W			50W					
	MATRIX Circuit/ Surround terminal			○		○				○
	A.S.P	○								
	MIC x 2, MIXING	○								
	Digital echo						○			○
	Digital key control									○
	DOLBY PROLOGIC							○		
	AC outlet								○	
DECK	W-DECK MECHA	FULL LOGIC ONE WAY			FULL LOGIC REVERSE					
	DOLBY NR	B			B,HX-PRO					
	Normal speed	○								
	B DECK recording	○								

1.2 Microproccesor periphery block diagram


(X14) ED 1
FL display
Key matrix
(X14) IC 1
KS/Seg
Dig (Gri)
KR
CD DATA/CLOCK
Main μ-com
IC DATA/CLOCK
(X09) IC 11
Expander μ-com
• Power ON/OFF
• AF/SP mute
(X14) IC 2
LED Expander μ-com
• disc 1-3 select.
• Input select.
(X28) IC 6
Expander μ-com
• Deck mechanism control
(X28) IC 7
Expander μ-com
• Deck control
(X32) IC 2
CD DSP & DAC
(X32) IC1
RF / Servo
(X32) IC 4
Loading motor control
(X32) IC6
Expander μ-com CD mechanism control
(X32) IC 5
Rotary motor control

1.3 Pin connection


M38198MC-053FP
FIP SEGMENT
FIP GRID
1 60Hz
2 400Hz
3 2.7KHz
4 16KHz
5 A-PH
6 B-PH
7 DPSS
8 SDATA
9 SBUSY
10 PLL-DO
11 PLL-CE
12 E-STB
13 CD-XLAT
14 CD-DATA
15 CD-CLK
16 IC-CLK
17 PROTECT/IC-DATA
18 SEL-DTMUTE
19 SENSE
20 SQCK
21 (OPEN)
22 SUBQ
23 STSW
24 PSSW
25 H.P
26 PRO-STB/KC-STB
27 S-CLK
28 S-DATA/S-ACK
29 CE
30 LED-STB
31 PRO-CLK/KC-CLK
32 SCOR
33 PRO-DT/KC-DATA
34 REM
35 RESET
36 Xcin
37 Xcout
38 Xin
39 Xout
40 Vss
41 KR3
42 KR2
43 KR1
44 KR0
45 E-OE
46 SEL-STB
47 G8
48 G7
49 G6
50 G5
51 G4
52 G3
53 G2
54 G1
55 S40
56 S39
57 S38
58 S37
59 S36
60 S35
61 S34
62 S33
63 S32
64 S31
65 S30
66 S29
67 S28
68 S27
69 S26
70 S25
71 S24
72 S23
73 S22
74 S21
75 S20
76 S19
77 S18
78 S17
79 S16
80 S15
81 S14/KEY14
82 S13/KEY13
83 S12/KEY12
84 S11/KEY11
85 S10/KEY10
86 S9/KEY9
87 S8/KEY8
88 S7/KEY7
89 S6/KEY6
90 S5/KEY5
91 Vcc
92 S4/KEY4
93 S3/KEY3
94 S2/KEY2
95 S1/KEY1
96 CW
97 CCW
98 Vee
99 AVss
100 Vref

CIRCUIT DESCRIPTION

1.4 Pin description

PIN NO.	I/O	NAME	DESCRIPTION	REMARKS
1	I	60Hz	Speana input(A/D convertor input)	
2	I	400Hz		
3	I	2. 7kHz		
4	I	16kHz		
5	I	A-PH	A photo sensor input	
6	I	B-PH	B photo sensor input	
7	I	DPSS	DPSS detection	
8	I/O	SDATA	Serial communication data	Refer Note 1
9	I/O	SBUSY	Serial communication busy	Refer Note 1
10	I	PLL-DO	PLL(LC7218)data input	
11	O	PLL-CE	PLL(LC7218)chip enable	
12	O	E-STB	Expander IC(BU4094BF) strobe	
13	O	CD-XLAT	CD latch output(CXA1782BQ,CXD2508Q)	
14	O	CD-DATA	CD IC DATA(CXA1782BQ · CXD2508Q)	
15	O	CD-CLK	CD IC CLK(CXA1782BQ · CXD2508Q)	
16	O	I C-CLK	IC-CLOCK(BU4094BF · NJU7313AM,NJU3718G · LC7218,LC83025E)	
17	I/O	PROTECT/IC-DATA	Protection input IC data(BU4094BF · NJU7313AM,NJU3718G,LC7218,LC83025E)	
18	O	SEL-DTMUTE	Selector IC data mute(NJU7313AM)	
19	I	SENSE	CD sense input(CXA1782BQ,CXD2508Q)	
20	O	SQCK	Sub cord clock(CXD2508Q)	
21	O	(OPEN)	Unused	
22	I	SUBQ	Sub code data(CX2508Q)	
23	I	STSW	CD mechanism stop SW	
24	I	PSSW	CD mechanism position SW	
25	I	H. P	Headphone input	Refer note 8
26	O	PRO-STB/KC-STB	Dolby PROLOGIC IC(LA2785,LV1010N)strobe/Karaoke (Key control) IC(M65840SP) strobe	Refer Note 2
27	O	S-CLK	Surround IC clock(TDA7315,TDA7345)	
28	I/O	S-DATA/S-ACK	Surround IC data(TDA7315 · TDA7345)	
29	I	$\overline{\text{CE}}$	Power failure input	
30	O	LED-STB	LED IC(NJU3718G) strobe	
31	O	PRO-CLK/KC-CLK	Dolby PROLOGIC IC(LA2785,LV1010N)clock/Karaoke (Key control) IC(M65840SP)clock output	Refer Note 2
32	I	SCOR	Sub code(CXD2508Q)	
33	O	PRO-DT/KC-DATA	Dolby PROLOGIC IC(LA2785,LV1010N) data/Karaoke (Key control) IC(M65840SP) data output	Refer Note 2
34	I	REM	Remote control input	
35		$\overline{\text{RESET}}$	Reset	

PIN NO.	I/O	NAME	DESCRIPTION	REMARKS
36	I	Xcin	Timer clock input(32.768KHz)	
37	O	Xcout		
38	I	Xin	Main clock input(8.38MHz)	
39	O	Xout		
40		Vss	(GND)	
41 ～ 44	I	KR3 ～ KR0	Key return 3 ～ 0	
45	O	E-OE	Expander IC(BU4094BF) enable control	
46	O	SEL-STB	Selector IC(NJU7313AM) strobe	
47 ～ 54	O	G8 ～ G1	FL grid output G8 ～ G1	
55 ～ 80	O	S40 ～ S15	FL segment output S40 ～ S15	
81~90	O	SI4/KS14 ～ S5/KS5	FL segment/Key scan output S14/KS14~S5/KS5	
91		Vcc	(Micom power)	
92~95	O	S4/KS4~S1/KS1	FL segment/Key scan output S4/KS4~S1/KS1	
96	I	CW	Rotary encoder input B	
97	I	CW	Rotary encoder input A	
98		Vee	Full down power	
99		AVss	A/D GND	
100		Vref	A/D reference voltage	

1.5 Key scan line input

NAME	DESCRIPTION	REMARKS
SLT	CD limit SW	
DNSW	CD down SW	
UPSW	CD up SW	
LDSW	CD load SW	
$\overline{\text{UNLOAD}}$	CD unload SW	
A-PACK	A deck tape detection	
B-PACK	B deck tape detection	
A-CrO2	A deck Normal/CrO2 detection	
B-CrO2	B deck Normal/CrO2 detection	
A-PLAY	A deck PLAY – SW	
B-PLAY	B deck PLAY – SW	
FREC	Forward REC detection	
RREC	Reverse REC detection	Refer Note 7
TEST	PCB TEST mode	
DSW3	Decided model(D)	
DSW4		
DSW5	Decided destination(D)	
DSW6		
DSW0	Decided tuner destination(D)	
DSW1		
DSW2		
$\overline{\text{ST}}$	PLL stereo input	
$\overline{\text{SD}}$	Station detector input	

CIRCUIT DESCRIPTION

Note 1: This port controls only the J-type of UD303/UD423. As for the same model for other destinations, it is set to the input mode, and the register to be accessed is kept at Low.

Note 2: This port controls only the M/J-type of UD423 (key-control type) and all destination models of UD403 (DOLBY PRO LOGIC type). As for the model for other destinations, it is set to the input mode, and the register to be accessed is kept at Low.

Note 3: This terminal controls only all destination models of UD403 (DOLBY PRO LOGIC type). As for other models, it is set at Low.

Note 4: This terminal controls the M/J type of UD203, the E/M type of UD303/UD403, the M/J type of UD423, and the K type of UD403. As for other models, it is set at Low.

Note 5: This terminal controls the M/J type of UD303/UD423. As for other models, it is set at Low.

Note 6: This terminal controls all destination models of UD403 as a MAIN RELAY as well as the M/J type of UD423 as a KEY CONTROL LED. As for other models, it is set at Low.

Note 7: This terminal is fixed at Low for the ONE-WAY type deck (i. e. all destination models of UD203).

Note 8: This port is fixed at Low except on UD403.

Note 9: This port is unused when the mechanical deck has one motor.

	UD203				UD303				UD403			UD413				UD423	
	K	E	M	J	K	E	M	J	K	E	M	K	E	M	J	M	J
Note 1								O									O
Note 2									O	O	O					O	O
Note 3									O	O	O						
Note 4			O	O		O	O	O	O	O	O					O	O
Note 5							O	O	O		O					O	O
Note 6									O	O	O					O	O
Note 7	O	O	O	O					O								
Note 8									O	O	O						

Additional Explanation on Note 4:

OMNI RELAY (MATRIX SURROUND) Control

The models that this terminal controls as an OMNI RELAY are UD203 (M/J), UD303 (E/M/J), UD403 (E/M), and UD423 (M/J), of which control is activated (i. e. turned ON) in the ARENA / JAZZ CLUB / STADIUM mode of PRESENCE.

As far as UD403 (K) is concerned, the terminal is controlled (i. e. turned ON) only when it is set at DOLBY PRO LOGIC. 3 STEREO.

Please note that there is no need to control it when the same model for other destinations are set at DOLBY PRO LOGIC: 3 STEREO.

DIODE SWITCH TABLE

(1)DECIDED MODEL(DSW3,DSW4)

	DSW4 D19	DSW3 D18
UD203	L	L
UD303	L	H
UD403	H	L
UD413/UD423	H	H

L : Non diode
H : Exist diode

(2)DECIDED DESTINATION(DSW5,DSW6)

	DSW6 D16	DSW5 D17
K. P. R	L	L
E. T, G. X	L	H
M, Y	H	L

L : Non diode
H : Exist diode

CIRCUIT DESCRIPTION

1.6 Initialization (Reset)

Insert the AC plug into the outlet while holding down the ENTER key of main unit.

Initial stage

	State	
SYSTEM	POWER	OFF
CLOCK PROG.	CLOCK	STOP(AM12:00)
	PROG. Operation MODE	OFF
	PROG.1 : ON=AM12:00	OFF=AM12:00
	MOD=PLAY	SOC=TUNER(1ch)
	PROG.2 : ON=AM12:00	OFF=AM12:00
	MOD=PLAY	SOC=TUNER(1ch)
AMP	VOLUME	7SEG=7
	SELECTOR	TUNER
	EQ.	OFF
	PRESENCE	OFF
	LLC	OFF
	ACTIVE N.B.	OFF
	MUTING	OFF

	State	
TUNER	BAND	FM
	Each last BAND	
	FM : P.ch= - - ch	FREQ=min(76.0 or 87.5MHz)
	AM(MW) : P.ch= - - ch	FREQ=min(530 or 531kHz)
	LW : P.ch= - - ch	FREQ=min(153kHz)
	P.CH Memory 1ch~20ch :	Test frequency (Refer to Test Frequency)
	Tuning MODE	AUTO (AUTO STEREO)
TAPE	A/B Selector	B
	A Deck Head position	For FWD
	B Deck Head position	For FWD
	DOLBY NR	OFF
	DIRECTION	↻
CD	DISC Selector	DISC 1
	REPEAT	OFF

2 TEST MODE

2.1 Cassette Deck TEST Mode

TEST Mode	Operation	Description
Input method	While depressing the TAPE key, plug the power cord in to an AC power outlet.	Entered TEST mode.
Cancel method	Turn off the power.	Cancelled TEST mode.
4 sec. REC	REC	Insert the cassette tape of B deck, select AUX, the deck start REC position. On the REC mute off, started 4 sec REC. After return REC Starting position,select TAPE, started PLAY position.
Direct PLAY	FWD key ※RVS key(Insert the tape in the A or B deck)	FWD key : Moved FWD PLAY to select A or B RVS key : Moved REV PLAY to select A or B.
W PLAY	FWD key ※RVS key(Insert the tape in the A or B deck)	Moved PLAY A and B, output PLAY signal with selection.
FL display	DEMO	FL : All no light ←→ normal display(cyclic) LED RED and GRN : Flickering ←→ normal display(Cyclic)

※RVS position isn't RXD-F2.

2.2 DETECT HALF SW (On TEST MODE)

A B
◁ ▷ ◁ ▷
↓ ↓ ↓ ↓
① ② ③ ④

① A deck sw detection display
Lit(ON) : A deck NORMAL tape
Lit(OFF) : A deck METAL, CrO2 tape

② B deck sw detection display
Lit(ON) : B deck NORMAL tape
Lit(OFF) : B deck METAL, CrO2 tape

③ B deck sw detection display
Lit(ON) : B deck RVS direction REC possible tape
Lit(OFF) : B deck RVS direction REC impossible tape

④ B deck sw detection display
Lit(ON) : B deck FWD direction REC possible tape
Lit(OFF) : B deck FWD direction REC impossible tape

CIRCUIT DESCRIPTION

2.2 AMP GE TUNER TEST MODE

1. How to turn it ON

   If you turn ON the power while pressing the AUX key or the TUWER key, it will go into the AMP/GE/TUNER test mode.

2. Operation immediately after the start-up of the test mode

   The test mode gets started while the power is turned ON. If the AUX key is pressed, the selector will be turned to "AUX." If the TUNER key is pressed, it will be turned to "TUNSR. All the FLs will light up. The red and green lamps of the two-color LEDS will light up by turns at 500 msec. interval. All the single-color LEDS will light up. The indication with all the LEDs' lighting up can be released by operating the key on the remote control or on the main body Then, it will be returned to the ordinary “AUX” display then to the ordinary display.

3. Operation in the test mode

(1) MUTE control is not activated when the mode is switched.

(2) The test mode will not be terminated if it is shifted to other positions than “AUX.

(3) The test mode will be terminated by plugging it off the power source or by initializing it, when all the settings will be initialized.

(4) During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the remote control or the main body, specifically as shown in the following table.

Key	Function	Key	Function
POWER	Initialization	DEMO	All light ⇔ normal display(cyclic)
CD	Normal operation	+10(Remocon key)	Selector TUNER+10 key
TAPE	Normal operation	0(Remocon key)	Selector TUNER 0 key
TUNER	Normal operation	1(Remocon key)	Selector TUNER 1 key
MD/AUX	Normal operation	2(Remocon key)	Selector TUNER 2 key
■	Normal operation	3(Remocon key)	Selector TUNER 3 key
I◀◀	Normal operation	4(Remocon key)	Selector TUNER 4 key
▶▶I	Normal operation	5(Remocon key)	Selector TUNER 5 key
◀◀	Normal operation	6(Remocon key)	Selector TUNER 6 key
▶▶	Normal operation	7(Remocon key)	Selector TUNER 7 key
ENTER.	Normal operation	8(Remocon key)	Selector TUNER 8 key
LLC	Normal operation	9(Remocon key)	Selector TUNER 9 key
PRESENCE	Normal operation		
N. B.	Normal operation		
EQ. ON/OFF	Normal operation		
DEMO	Normal operation		
DISC 1	Normal operation		
DISC 2	Normal operation		
DISC 3	Normal operation		
OPEN/CLOSE	Normal operation		
※DISK SKIP	※Equalizer FLAT (OFF)		
REPEAT	Normal operation		
A/B(A)	※Master MID(CE)		
DIRECTION/B(F2 only)	※Master MIN(L)		
DOLBY NR B(Unit)	Equalizer MIN		
DUBBING (Unit)	Equalizer MAX		
REC/ARM(REC)	HIT MASTER ON		
ONE TOUCH EDIT	※Master MAX(R)		

※ The DISK SKIP key is used for “Equalizer FLAT” and “OFF function” (to turn OFF “PRESENCE” and “HIT MASTSR”).

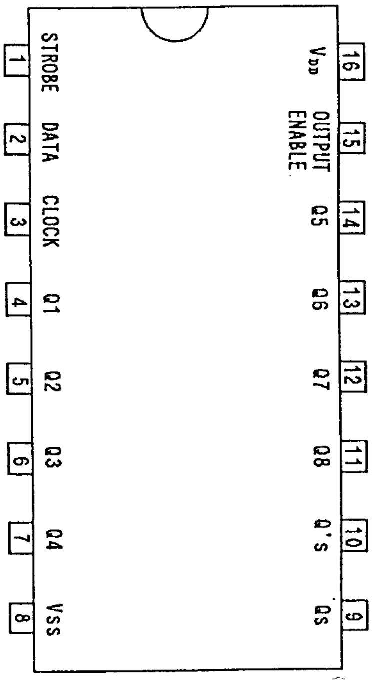
※ The remote control/main body keys that are not listed above will work as usual.

※ If you press the center key of the models equipped with DOLBY SURROUND function, the DIRECTION key has the “L-side balance MAX” function, the A/B(A) key has the “balance center” function, and the ONS TOUCH EDIT key has the “R-side balance MAX” function.

CIRCUIT DESCRIPTION

3. Expander μ-com : BU4094BCF (X09 : IC11) (X28 : IC 6,7) , BU4094BC (X32 : IC6)

3.1 Pin connection


1 STROBE
2 DATA
3 CLOCK
4 Q1
5 Q2
6 Q3
7 Q4
8 Vss
16 V_{DD}
15 OUTPUT ENABLE
14 Q5
13 Q6
12 Q7
11 Q8
10 Q's
9 Qs

3.2 Pin connection

Pin No.	Pin Name	I/O	Pin Function
1	STROBE	I	STROBE INPUT
2	DATA	I	DATA INPUT
3	CLOCK	I	CLOCK INPUT
4	Q1	O	PARALLEL OUTPUT
5	Q2	O	PARALLEL OUTPUT
6	Q3	O	PARALLEL OUTPUT
7	Q4	O	PARALLEL OUTPUT
8	Vss	—	Vss
9	Qs	O	SERIAL OUTPUT
10	Q's	O	SERIAL OUTPUT
11	Q8	O	PARALLEL OUTPUT
12	Q7	O	PARALLEL OUTPUT
13	Q6	O	PARALLEL OUTPUT
14	Q5	O	PARALLEL OUTPUT
15	OUTPUT ENABLE	I	ENABLE INPUT
16	V DD	—	V DD

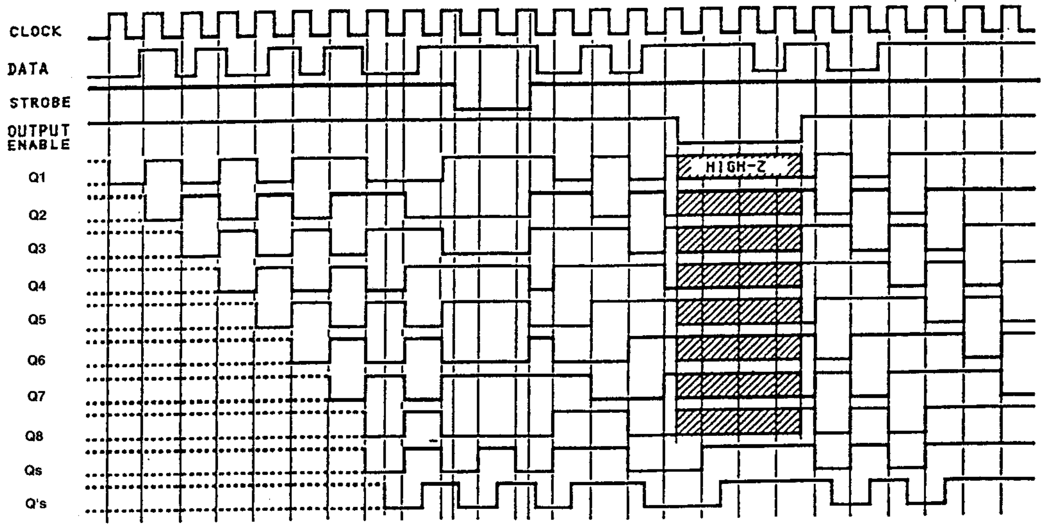
※Refer to next diagram about Q1 ~Q8.

3.3 TRUE TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	No Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No chg.	Q7	No Chg.
↑	H	H	L	L	Qn- 1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don' t Care

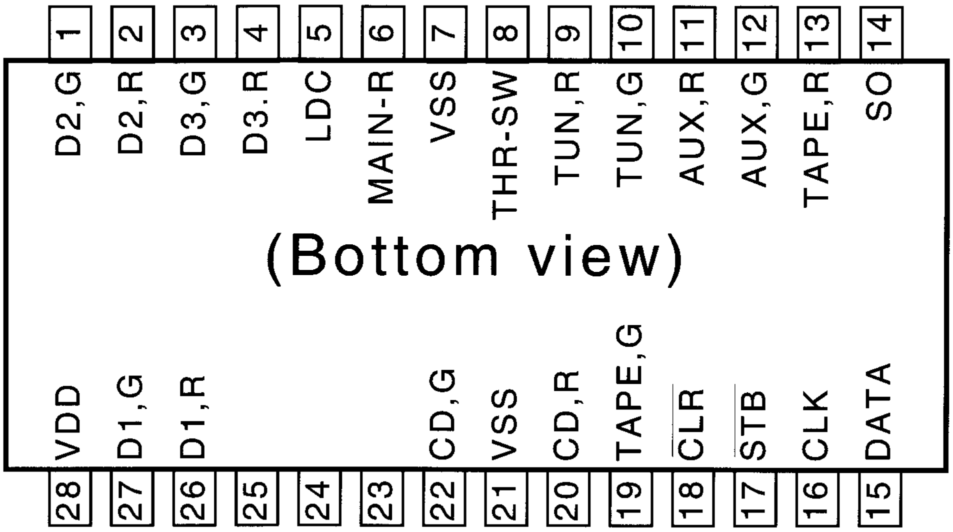
3.4 Timing chart



CIRCUIT DESCRIPTION

4. EXPANDER μ-COM : NJU3718G (X14 : IC2)

4.1 Pin connection


1 D2,G
2 D2,R
3 D3,G
4 D3.R
5 LDC
6 MAIN-R
7 VSS
8 THR-SW
9 TUN,R
10 TUN,G
11 AUX,R
12 AUX,G
13 TAPE,R
14 SO
(Bottom view)
28 VDD
27 D1,G
26 D1,R
25
24
23
22 CD,G
21 VSS
20 CD,R
19 TAPE,G
18 CLR
17 STB
16 CLK
15 DATA

4.2 Pin description

Pin No.	Pin Name	I/O	Pin Function
1	D2. G	O	DISC2 GREEN
2	D2. R	O	DISC2 RED
3	D3. G	O	DISC3 GREEN
4	D3. R	O	DISC3 RED
5	LDC	O	CD LASER DIODE
6	MAIN-R	O	MAIN SPEAKER RELAY(Ref.Note 6)
7	Vss	—	V ss
8	THR-SW	O	Key control/Pro Logic through SW
9	TUN. R	O	Selector TUNER LED RED
10	TUN. G	O	Selector TUNER LED GREEN
11	AUX. R	O	Selector AUX LED RED
12	AUX. G	O	Selector AUX LED GREEN
13	TAPE. R	O	Selector TAPE LED RED
14	SO	I	NO USE
15	DATA	I	DATA INPUT
16	CLK	I	CLOCK INPUT
17	$\overline{\text{STB}}$	I	STROBE INPUT
18	$\overline{\text{CLR}}$	I	CLEAR INPUT
19	TAPE. G	O	Selector TAPE LED GREEN
20	CD. R	O	Selector CD LED RED
21	Vss	—	Vss
22	CD. G	O	Selector CD LED RED
23	◀◀ ▶▶	O	Center control key(◀◀ ▶▶)
24	I◀◀ ▶▶I	O	Center control key(I◀◀ ▶▶I)
25	■	O	Center control key(■)
26	D1. R	O	DISC1 RED
27	D1. G	O	DISC1 GREEN
28	V DD	—	V DD

- Note 6: This terminal controls all destination models of UD403 as a MAIN RELAY as well as the M/J type of UD423 as a KEY CONTROL LED. As for other models, it is set at Low.

CIRCUIT DESCRIPTION

Expander port output

1. Amp section (8 ports)

IC-NO.	Pin No.	Name	I/O	Function name	Description	Remarks
(X09)IC11	4	Q1	O	POWER	Power supply output	
	5	Q2	O	$\overline{\text{AMUTE}}$	Audio MUTE	
	6	Q3	O	$\overline{\text{CR-MUTE}}$	Center rear MUTE	Ref. Note 3
	7	Q4	O	CR-R	Relay ON/OFF of center rear speakers	Ref. Note 3
	14	Q5	O	OMNI-R	Relay ON/OFF of OMNI speakers	Ref. Note 4
	13	Q6	O			
	12	Q7	O			
	11	Q8	O	$\overline{\text{TMUTE}}$	Tuner MUTE	

- Note 3 : his terminal controls only all destination models of UD403 (DOLBY PRO LOGIC type). As for other models, it is set at Low.
- Note 4 : This terminal controls the M/J type of UD203, the E/M type of UD303/uD403, the M/J type of UD423, and the K type of UD403. As for other models, it is set at Low.
- Additional Explanation on Note 4 : OMNI RELAY (MATRIX SURROUND) Control
  The models that this terminal controls as an OMNI RELAY are UD203 (M/J), UD303 (E/M/J), UD403 (E/M), and UD423 (M/J), of which control is activated (i. e. turned ON) in the ARENA / JAZZ CLUB /STADIUM mode of PRESENCE.
  As far as UD403 (K) is concerned, the terminal is controlled(i. e. turned ON) only when it is set at DOLBY PRO LOGIC : 3 STEREO.
  Please note that there is no need to control it when the same model for other destinations are set at DOLBY PRO LOGIC : 3 STEREO.

2. Cassette deck section (1) (8 ports)

IC-NO.	Pin No.	Name	I/O	Function name	Description	Remarks
(X28)IC6	4	Q1	O	A-SOL	A solenoid control	
	5	Q2	O	A-CPM	A motor control	Ref. Note 9
	6	Q3	O	B-SOL	B solenoid control	
	7	Q4	O	B-CPM	B motor control	
	14	Q5	O	R/$\overline{\text{P}}$	B mechanism REC/PLAY change over	
	13	Q6	O	BEAT-C	Beat canceller	
	12	Q7	O	ECHO-B	Echo IC change over B	Ref. Note 5
	11	Q8	O	ECHO-A	Echo IC change over A	Ref. Note 5

- Note 5 : This terminal controls the M/J type of UD303/UD423. As for other models, it is set at Low.
- Note 9 : This port is unused when the mechanical deck has one motor.

3. Cassette Deck section(2)(8 ports)

IC-NO.	Pin No.	Name	I/O	Function name	Description	Remarks
(X28)IC7	4	Q1	O	$\overline{\text{RMUTE}}$	REC MUTE	
	5	Q2	O	D-R/$\overline{\text{P}}$	Dolby REC/PLAY changeover	
	6	Q3	O	LMUTE	LINE MUTE	
	7	Q4	O	NR	Noise reduction changeover	
	14	Q5	O	$\overline{\text{A}}$/B	A/B playback changeover	
	13	Q6	O	ASEL	A normal/chrome selector	
	12	Q7	O	BSEL	B normal/chrome selector	
	11	Q8	O	BIAS	BIAS on/off control	

- Note 10 : This terminal had been set at "MS" (DPSS sensitivity switching) with a TS, but had been unused. There occurred a sound leak in the FF/RWD/search mode with the TS, and it is currently controlled as a LINE MUTE terminal.

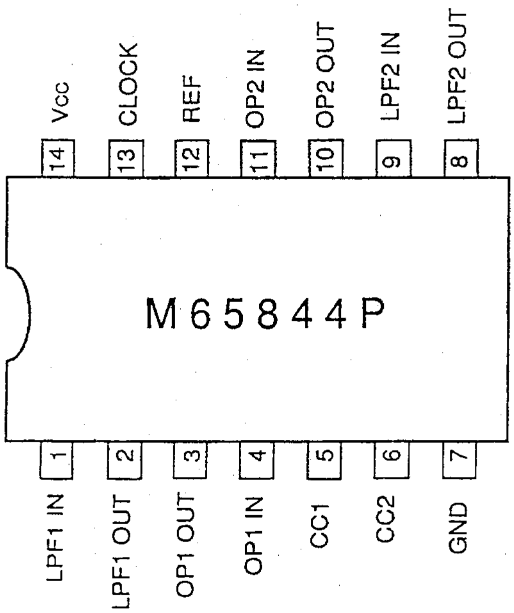
4. CD section(8 ports)

IC-NO.	Pin No.	Name	I/O	Function name	Description	Remarks
(X32)IC6	4	Q1	O	RMR	Rotary motor control	
	5	Q2	O	BRKM	Rotary motor control	
	6	Q3	O	RMF	Rotary motor control	
	7	Q4	O	LMF	Load motor control	
	14	Q5	O	$\overline{\text{DC-CNT}}$	CD IC power supply control	
	13	Q6	O	I CRST	CD IC reset control	
	12	Q7	O	P-MON	Focus control	
	11	Q8	O	LMR	Load motor control	

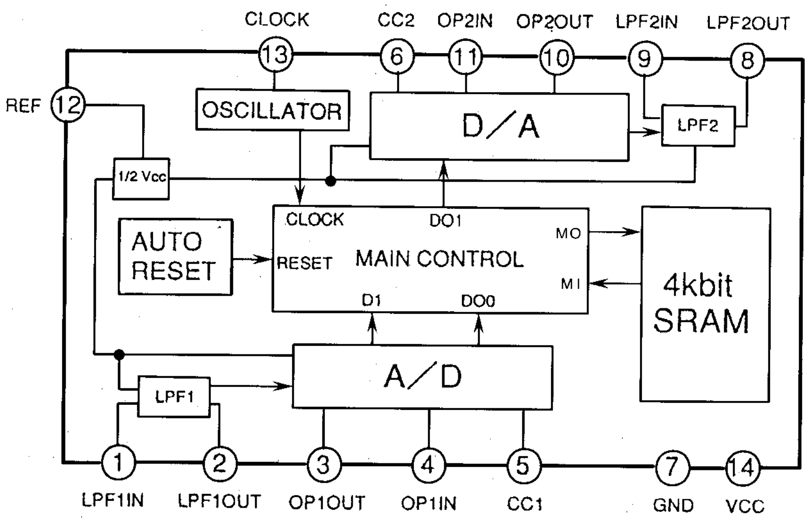
CIRCUIT DESCRIPTION

5. Digital echo : M65844P (X09 : IC8)

5.1 Pin Connection


M65844P
14 Vcc
13 CLOCK
12 REF
11 OP2 IN
10 OP2 OUT
9 LPF2 IN
8 LPF2 OUT
1 LPF1 IN
2 LPF1 OUT
3 OP1 OUT
4 OP1 IN
5 CC1
6 CC2
7 GND

5.2 Block diagram


CLOCK
CC2
OP2IN
OP2OUT
LPF2IN
LPF2OUT
13
6
11
10
9
8
REF 12
OSCILLATOR
D/A
LPF2
1/2 Vcc
AUTO RESET
CLOCK
DO1
MO
RESET
MAIN CONTROL
MI
D1
DO0
4kbit SRAM
A/D
LPF1
1
2
3
4
5
7
14
LPF1IN
LPF1OUT
OP1OUT
OP1IN
CC1
GND
VCC

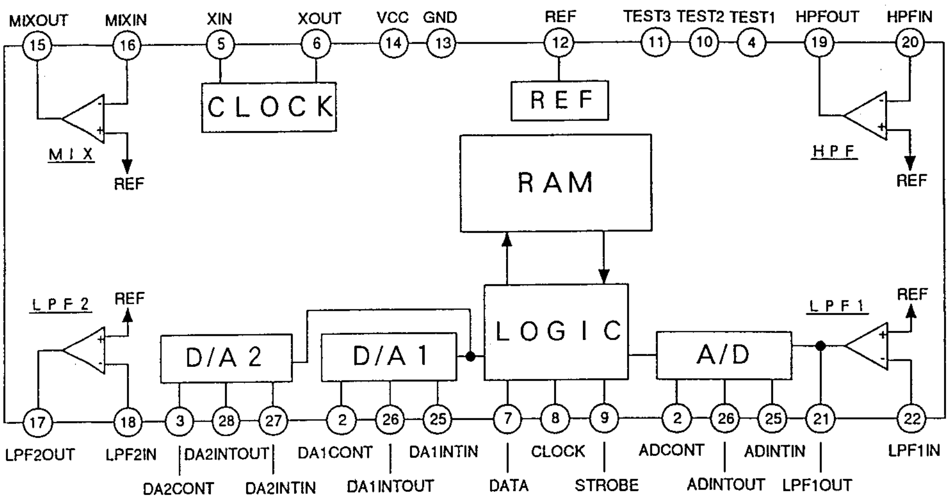
5.3 Pin description

Pin No.	Name	I/O	Discription
1	LPF1 IN	I	Input side L.P.F. with outside C.R.
2	LPF1 OUT	O	
3	OP1 OUT	O	A/D converted integrator with outside C.
4	OP1 IN	I	
5	CC1	-	A/D convertor ADM control
6	CC2	-	D/A convertor ADM control
7	GND	-	GND
8	LPF2 OUT	O	Input side L.P.F. with outside C.R.
9	LPF2 IN	I	
10	OP2 OUT	O	D/A converted integrator with outside C.
11	OP2 IN	I	
12	REF	-	Analog reference voltage ≒ 1/2Vcc
13	CLOCK	I	Generator(220KHz)with outside C.R.
14	Vcc	-	Power supply 4.5V ～ 5.5V(Specification)

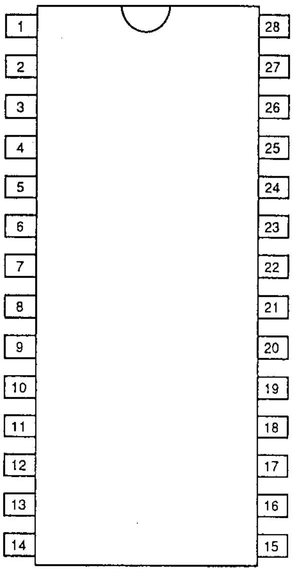
CIRCUIT DESCRIPTION

6. KEY CONTROL IC : 65840SP (X11 : IC1)

6.1 Block diagram


MIXOUT
MIXIN
XIN
XOUT
VCC
GND
REF
TEST3
TEST2
TEST1
HPFOUT
HPFIN
15
16
5
6
14
13
12
11
10
4
19
20
CLOCK
REF
MIX
REF
HPF
REF
RAM
LPF2
REF
LPF1
REF
D/A 2
D/A 1
LOGIC
A/D
17
18
3
28
27
2
26
25
7
8
9
2
26
25
21
22
LPF2OUT
LPF2IN
DA2INTOUT
DA1CONT
DA1INTIN
CLOCK
ADCONT
ADINTIN
LPF1IN
DA2CONT
DA2INTIN
DA1INTOUT
DATA
STROBE
ADINTOUT
LPF1OUT

6.2Pin connection


1
2
3
4
5
6
7
8
9
10
11
12
13
14
28
27
26
25
24
23
22
21
20
19
18
17
16
15

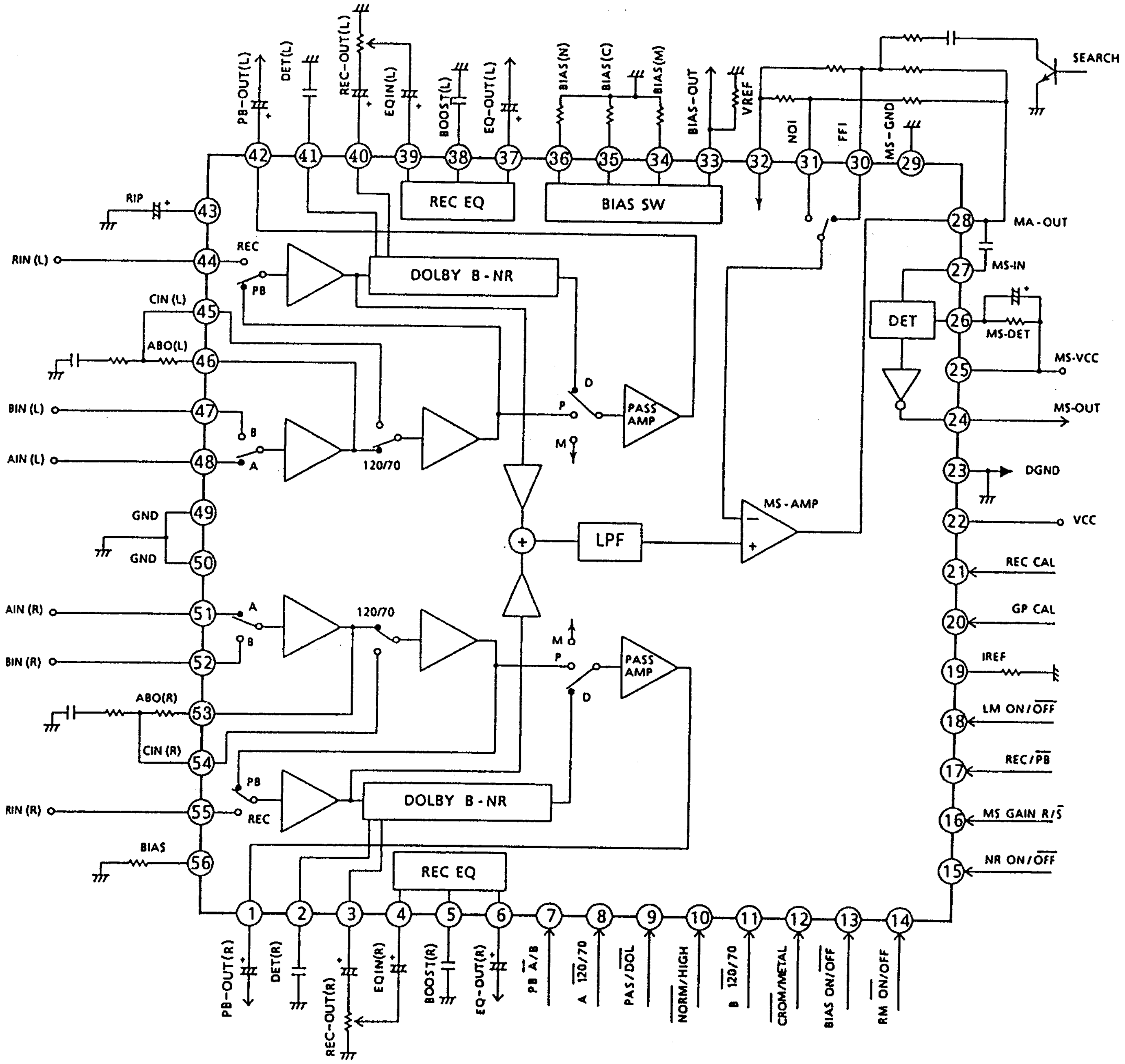
6.3 Pin description

PIN NO.	NAME	I/O	DESCRIPTION
1	ADCONT	O	Decide fitness time constant of ADM system A/D convert.
2	DA1CONT	O	Decide fitness time constant of ADM system D/A1 convert.
3	DA2CONT	O	Decide fitness time constant of ADM system D/A2 convert.
4	TEST1	O	L:NORMAL mode H:TEST mode
5	XIN	I	Connect 16MHz ceramic filter.
6	XOUT	O	
7	DATA	I	Serial bus DATA input
8	CLOCK	I	Serial bus CLOCK input
9	STROBE	I	Serial bus STROBE input
10	TEST2		N.C.(Open)
11	TEST3		N.C.(Open)
12	REF		1/2Vcc output,Connect filter C.
13	GND	-	GND
14	VCC		Power supply
15	MIXOUT	O	Mix key control low signal and through high signal.
16	MIXIN	I	
17	LPF2OUT	O	Post filter after converted D/A of the key control.
18	LPF2IN	I	
19	HPFOUT	O	L.P.F. of through high signal.
20	HPFIN	I	
21	LPF1OUT	O	Pre filter before converted A/D of the key control.
22	LPF1IN	I	
23	ADINTIN	I	A/D converted integrator with outside C.
24	ADINTOUT	O	
25	DA1INTIN	I	D/A1 converted integrator with outside C.
26	DA1INTOUT	O	
27	DA2INTIN	I	D/A2 converted integrator with outside C.
28	DA2INTOUT	O	

CIRCUIT DESCRIPTION

7. DOLBY IC : HA12182F(X28 : IC3)

7.1 Block diagram/pin connection


PB-OUT(L)
DET(L)
REC-OUT(L)
EQIN(L)
BOOST(L)
EQ-OUT(L)
BIAS(N)
BIAS(C)
BIAS(M)
BIAS-OUT
VREF
NOI
FFI
MS-GND
SEARCH
42
41
40
39
38
37
36
35
34
33
32
31
30
29
REC EQ
BIAS SW
28
MA-OUT
27
MS-IN
DET
26
MS-DET
25
MS-VCC
24
MS-OUT
23
DGND
22
VCC
21
REC CAL
20
GP CAL
19
IREF
18
LM ON/OFF
17
REC/PB
16
MS GAIN R/S
15
NR ON/OFF
RIP
43
RIN (L)
44
REC
PB
DOLBY B-NR
CIN (L)
45
ABO(L)
46
BIN (L)
47
B
AIN (L)
48
A
120/70
D
P
PASS AMP
M
MS-AMP
GND
49
GND
50
+
LPF
AIN (R)
51
A
120/70
B
BIN (R)
52
M
P
PASS AMP
ABO(R)
53
D
CIN (R)
54
PB
DOLBY B-NR
RIN (R)
55
REC
BIAS
56
REC EQ
1
2
3
4
5
6
7
8
9
10
11
12
13
14
PB-OUT(R)
DET(R)
REC-OUT(R)
EQIN(R)
BOOST(R)
EQ-OUT(R)
PB A/B
A 120/70
PAS/DOL
NORM/HIGH
B 120/70
CROM/METAL
BIAS ON/OFF
RM ON/OFF

7.2 Pin description

Pin No.	Name	Function
1	PBOUT(R)	PB output
2	DET(R)	Decided NR time constant
3	RECOUT(R)	REC output
4	EQIN(R)	REC EQ input
5	BOOST(R)	Decide low frequency boost time constant
6	EQOUT(R)	EQ output
7	PB $\overline{\text{A}}$/B	Mode decided input
8	A$\overline{\text{120}}$/70	Mode decided input
9	PASS/$\overline{\text{DOL}}$	Mode decided input
10	$\overline{\text{NORM}}$/HIGH	Mode decided input
11	B$\overline{\text{120}}$/70	Mode decided input
12	$\overline{\text{CROM}}$/METAL	Mode decided input
13	BIAS ON/$\overline{\text{OFF}}$	Mode decided input
14	RM $\overline{\text{ON}}$/OFF	Mode decided input
15	NR ON/$\overline{\text{OFF}}$	Mode decided input
16	MS GAIN R/$\overline{\text{S}}$	Mode decided input
17	REC/$\overline{\text{PB}}$	Mode decided input
18	LM ON/$\overline{\text{OFF}}$	Mode decided input
19	IREF	EQ reference current input
20	GPCAL	GP comparated terminal
21	RECCAL	REC gain comparated terminal
22	Vcc	Power supply
23	D-GND	Digital in/output reference voltage
24	MSOUT	MS output(to MPU)
25	MS-Vcc	Power supply
26	MSDET	Decided MS time constant
27	MSIN	MS input
28	MAOUT	MS AMP output
29	MS-GND	GND
30	FFI	MS(FF,REW) return input
31	NOI	MS(Normal) return input
32	VREF	MS reference output
33	BIASOUT	REC bias output
34	BIAS(M)	REC bias current input
35	BIAS(C)	REC bias current input
36	BIAS(N)	REC bias current input
37	EQOUT(L)	EQ output
38	BOOST(L)	Decide low frequency boost time constant
39	EQIN(L)	REC EQ input
40	RECOUT(L)	REC output
41	DET(L)	Decided NR time constant
42	PBOUT(L)	PB output
43	RIP	Ripple filter
44	RIN(L)	REC input
45	CIN(L)	70 μ buffer input
46	ABO(L)	PB input buffer output

Pin No.	Name	Function
47	BIN(L)	B deck PB input
48	AIN(L)	A deck PB input
49	GND	GND
50	GND	GND
51	AIN(R)	A deck PB input
52	BIN(R)	B deck PB input
53	ABO(R)	PB input buffer output
54	CIN(R)	70 µ buffer input
55	RIN(R)	REC input
56	BIAS	Dolby bias current input

*MS : Music Sensor

7.3 HA12182F : PARALLEL-DATA

Pin NO.	Pin name	Lo	Hi
QFP- 56			
7	PB $\overline{\mathrm{A}}$/B	A in ACTIVE *1	B in ACTIVE *1
8	A$\overline{120}$/70	*1	*1
9	PAS/ $\overline{\mathrm{DOL}}$	DOLBY NR	PASS AMP ACTIVE
10	NORM/ HIGH	NORMAL	Hi-SPEED
11	B$\overline{120}$/70	*1 *2	*1 *2
12	CROM / METAL	*2	*2
13	BIAS ON /$\overline{\mathrm{OFF}}$	BIAS OFF	BIAS ON
14	RM $\overline{\mathrm{ON}}$/OFF	EQOUT MUTE	EQOUT MUTE OFF
15	NR ON/$\overline{\mathrm{OFF}}$	DOLBY NR OFF	DOLBY NR ON
16	MS GAIN R/$\overline{\mathrm{S}}$	SEARCH	REPEAT
17	REC/ $\overline{\mathrm{PB}}$	PB (DECODE)	REC (ENCODE)
18	LM ON/$\overline{\mathrm{OFF}}$	PBOUT MUTE OFF	PBOUT MUTE

Note) "Lo " when pin open.

*1 PB EQ LOGIC

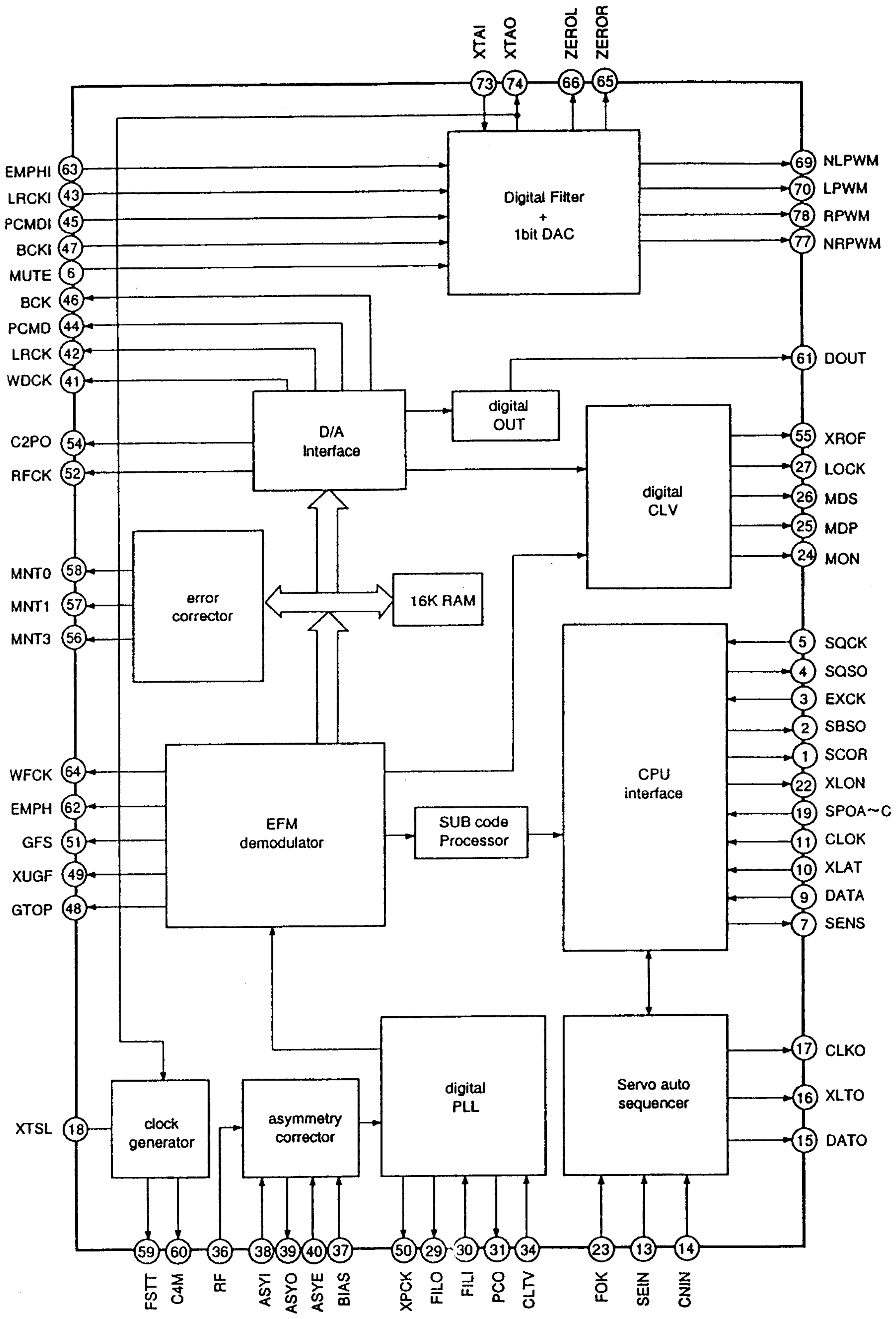
A$\overline{120}$/70	B$\overline{120}$/70	PB $\overline{\mathrm{A}}$/B	
		L	H
L	L	FLAT	FLAT
L	H	FLAT	70y
H	L	70 µ	FLAT
H	H	7o µ	70 µ

*2 REC BIAS LOGIC

		CROM / METAL	
		L	H
B$\overline{120}$/70	L	NORMAL (I)	NORMAL(I)
	H	CROM (II)	METAL(IV)

8. CD DSP : CXD2508AQ (X32 : IC2)

8.1 Pin connection


XTAI
XTAO
ZEROL
ZEROR
73
74
66
65
Digital Filter
+
1bit DAC
EMPHI 63
LRCKI 43
PCMDI 45
BCKI 47
MUTE 6
BCK 46
PCMD 44
LRCK 42
WDCK 41
69 NLPWM
70 LPWM
78 RPWM
77 NRPWM
61 DOUT
D/A
Interface
digital
OUT
C2PO 54
RFCK 52
digital
CLV
55 XROF
27 LOCK
26 MDS
25 MDP
24 MON
MNT0 58
MNT1 57
MNT3 56
error
corrector
16K RAM
CPU
interface
5 SQCK
4 SQSO
3 EXCK
2 SBSO
1 SCOR
22 XLON
19 SPOA~C
11 CLOK
10 XLAT
9 DATA
7 SENS
WFCK 64
EMPH 62
GFS 51
XUGF 49
GTOP 48
EFM
demodulator
SUB code
Processor
XTSL 18
clock
generator
asymmetry
corrector
digital
PLL
Servo auto
sequencer
17 CLKO
16 XLTO
15 DATO
59
60
36
38
39
40
37
50
29
30
31
34
23
13
14
FSTT
C4M
RF
ASYI
ASYO
ASYE
BIAS
XPCK
FILO
FILI
PCO
CLTV
FOK
SEIN
CNIN

CIRCUIT DESCRIPTION

8.2 Pin description

Pin NO. Q	Name	I/O	Description
1	SCOR	O	Sub code sink output H : Detected S0 or S1
2	SBSO	O	SUBP ～ W serial output
3	EXCK	I	SBSO read out clock input
4	SQSO	O	SUBQ80BIT serial output
5	SQCK	I	SQSO read out clock input
6	MUTE	I	H : ON, L : OFF
7	SENS	O	SENS output, output to CPU
8	XRST	I	System reset, L : RESET
9	DATA	I	Serial data input from CPU
10	XLAT	I	Latch input from CPU, Latched serial data on falling edge
11	CLOK	I	Serial data transmission clock input from CPU
12	Vss		GND
13	SEIN	I	Sense input from SSP
14	CNIN	I	Track jump Q'ty count signal input
15	DATO	O	Serial data output to SSP
16	XLTO	O	Serial data latch output for SSP, Latched on falling edge.
17	CLKO	O	Serial data transmission clock output to SSP.
18	SPOA	I	Expander μ -Com interface(Input A)
19	SPOB	I	Expander μ -Com interface(Input B)
20	SPOC	I	Expander μ -Com interface(Input C)
21	XTSL	I	Selected Xtal input, L : 16.9344MHz H : 33.8688MHz
22	XLON	O	μ -Com expander interface(Output)
23	FOK	I	Focus OK input. Use SENS output and servo auto sequencer.
24	MON	O	Spindle motor ON/OFF control output
25	MDP	O	Spindle motor servo control
26	MDS	O	Spindle motor servo control
27	LOCK	O	Sampling 460Hz on GES, GFS H : H 8Times L : L
28	TEST	I	TEST terminal, normal use GND.
29	FILO	O	Master PLL(Slave = Digital PLL) filter output.
30	FILI	I	Master PLL filter input
31	PCO	O	Master PLL charge pump output.
32	VDD		DSP digital power supply
33	AVss1		DSP analog power GND
34	CLTV	I	Master PLL VCO control voltage input.
35	AVDDI		DSP analog power supply
36	RF	I	EFM signal input
37	BIAS	I	Asymmetry revision circuit fixed current input.
38	ASYI	I	Asymmetry revision circuit comparator voltage input.
39	ASYO	O	EFM full swing output L =Vss, H = VDD
40	ASYE	I	L:Asymmetry revision OFF, H: Asymmetry revision ON
41	WDCK	O	48bit slot D/A interface, world clock(2FS)
42	LRCK	O	48bit slot D/A interface LR clock(FS)
43	LRCKI	I	LR clock input(48bit slot) for DAC
44	PCMD	O	D/A interface, serial data(2'SCOMP,MSB first)
45	PCMDI	I	Audio data input(48bit slot) for DAC

CIRCUIT DESCRIPTION

Pin NO.	Name	I/O	Description
Q			
46	BCK	O	D/A interface, bit clock
47	BCKI	I	Bit clock input(48bit slot) for DAC
48	GTOP	O	GTOP output
49	XUGF	O	XUGF output
50	XPCK	O	XPLCK output
51	GFS	O	GFS output
52	RFCK	O	RFCK output
53	Vss		GND
54	C2PO	O	C2PO output
55	XROF	O	XRAOF output
56	MNT3	O	MNT3 output
57	MNT 1	O	MNT1 output
58	MNT0	O	MNT0 output
59	FSTT	O	Output 2/3 divided f of 33,8688MHz
60	C4M	O	4.2336MHz output
61	DOUT	O	Digital output
62	EMPH	O	CD Emphasis H : EX1ST L : Non
63	EMPHI	I	DAC demphasis ON/OFF, H : ON, L : OFF
64	WFCK	O	WRITE FRAME CLOCK output
65	ZEROL	O	No sound data detected output, H : No sound(Lch)
66	ZEROR	O	No sound data detected output, H : No sound(Rch)
67	DTS 1	I	DAC test terminal 1, normal L
68	VDD		DAC Digital power supply
69	NLPWM	O	Lch PWM output(Reverse phase)
70	LPWM	O	Lch PWM output(Normal phase)
71	AVDD2		PWM driver power supply
72	AVDD3		Xtal power supply
73	XTAI	I	33.8688MHz Xtal OSC input
74	XTAO	O	33.8688MHz Xtal OSC output
75	AVss3		Xtal GND
76	AVss2		PWM driver GND
77	NRPWM	O	Rch PWM output(Reverse phase)
78	RPWM	O	Rch PWM output(Normal phase)
79	DTS2	I	DAC test terminal 2, normal L
80	DTS 3	I	DAC test terminal 3, normal L

NOTES:

- "PCMD" is 2-S complementary output of "MSB First."
- "GTOP" is used to monitor the protective conditions of FrameSync (where "H" indicates "Sync protective window open").
- "XUGF" is a FrameSync obtained from the EFM signal, which is a negative pulse. This is a signal before Sync protection.
- "XPLICK" means to reverse the EFM PLL clock. The PLL is designed to match the falling edge with the changing point of the EFM signal.
- "GFS signal" is a signal that causes "H" when the FrameSync is matched with interpolation protective timing.
- "RFCK" is a 136- µsec. cycle signal that can be obtained at Xtal accuracy.
- "C2PO" is a signal that indicates the error status of the data.
- "XRAOF" is a signal that occurs when the 16K RAM exceeds the jitter margin of ±4F.

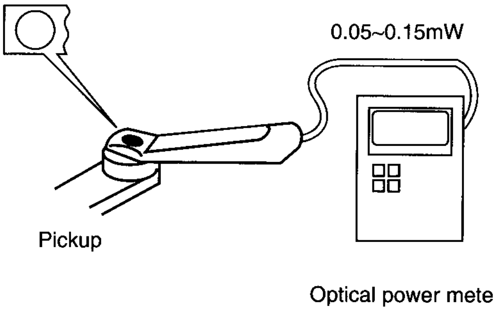
ADJUSTMENT

CD section

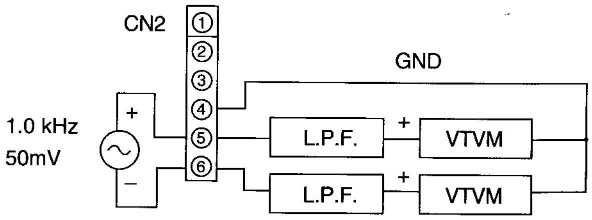
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	LASER POWER	-	Set the senor section of the optical power meter on the pickup lens.	Press CD key and turn the power on to enter the test mode.Press the"REPEAT"key to check that the display is "03".	-	On the power from.0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF (CN2-1) CH2 : TE (CN2-6)	Load disc and set to test mode.Confirm the display is"03".	TE BALANCE VR3	Symmetry between upper and lower or DC=0±0.05V	
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF(CN2-1) CH2 : TE(CN2-6)	Press the PLAY key. Confirm that the display is"05"	FE BALANCE VR4	Optimum eye pattern	
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 50mVrms to CN2 pin 5-6.	Connect a LPF to CN2 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the displays"05"	TRACKING GAIN VR1	Two VTVMs should read the same value.	(e)

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390pF or so.
Step 1 ~ 5 are in Test Mode.

(a) Laser Power



(e) Tracking Gain Adj.

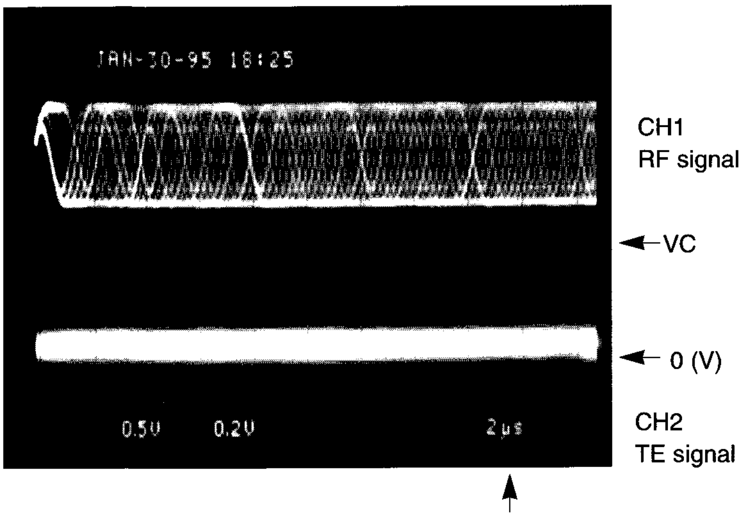


CD test mode input method : While depressing the CD key,
plug the power cord into an AC power outlet.

NO.	KEY	OPERATION	TRACK NO. DISPLAY
1	PLAY	Clamp DISC 1 1. FOCUS SERVO ....ON 2. TRACKING SERVO ....ON 3. FEED SERVO ....ON	05
2	REPEAT	1.FOCUS SERVO ....ON 2. TRACKING SERVO ....OFF 3. FEED SERVO ....OFF	03
3	DISC1	PLAY T NO.16	16
4	STOP	STOP	01
5	DISC2	SELECTED DISC1, SHIPMENT POSITION.	— — —

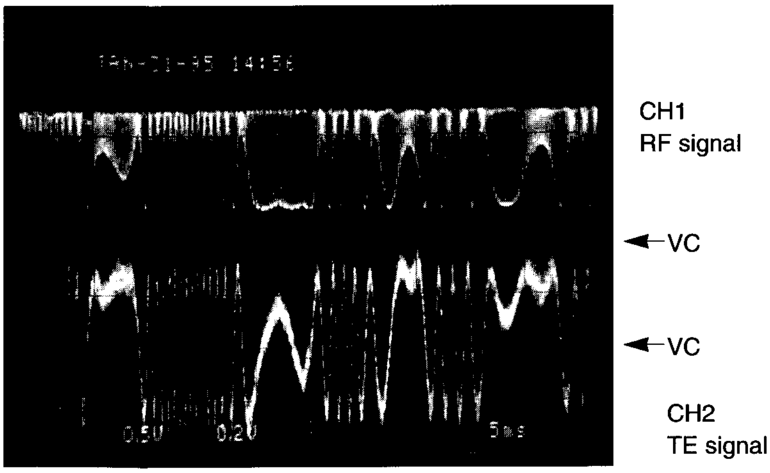
ADJUSTMENT

FIG. (b)



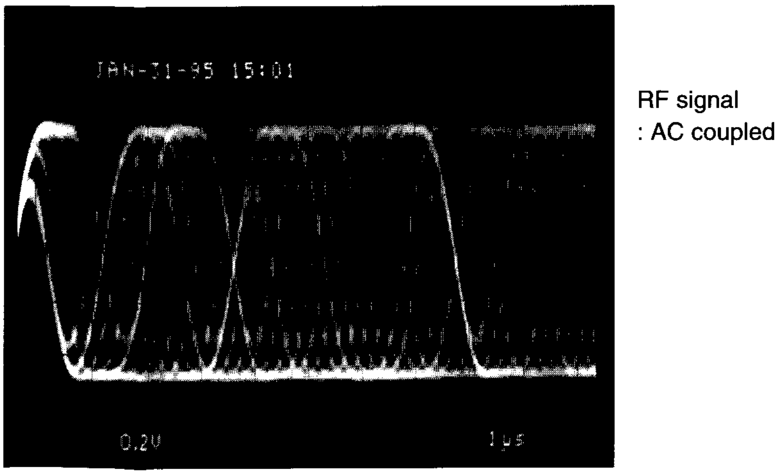
- ● RF signal and TE signal in test mode (PLAY).

FIG. (c)



- ● RF signal and TE signal in test mode (Focusing servo ON / Tracking servo OFF). (Disc Type 4)
- ● Adjust TE signal so that the waveform is symmetrical in relation to VC. VR 3 (TE BALANCE)

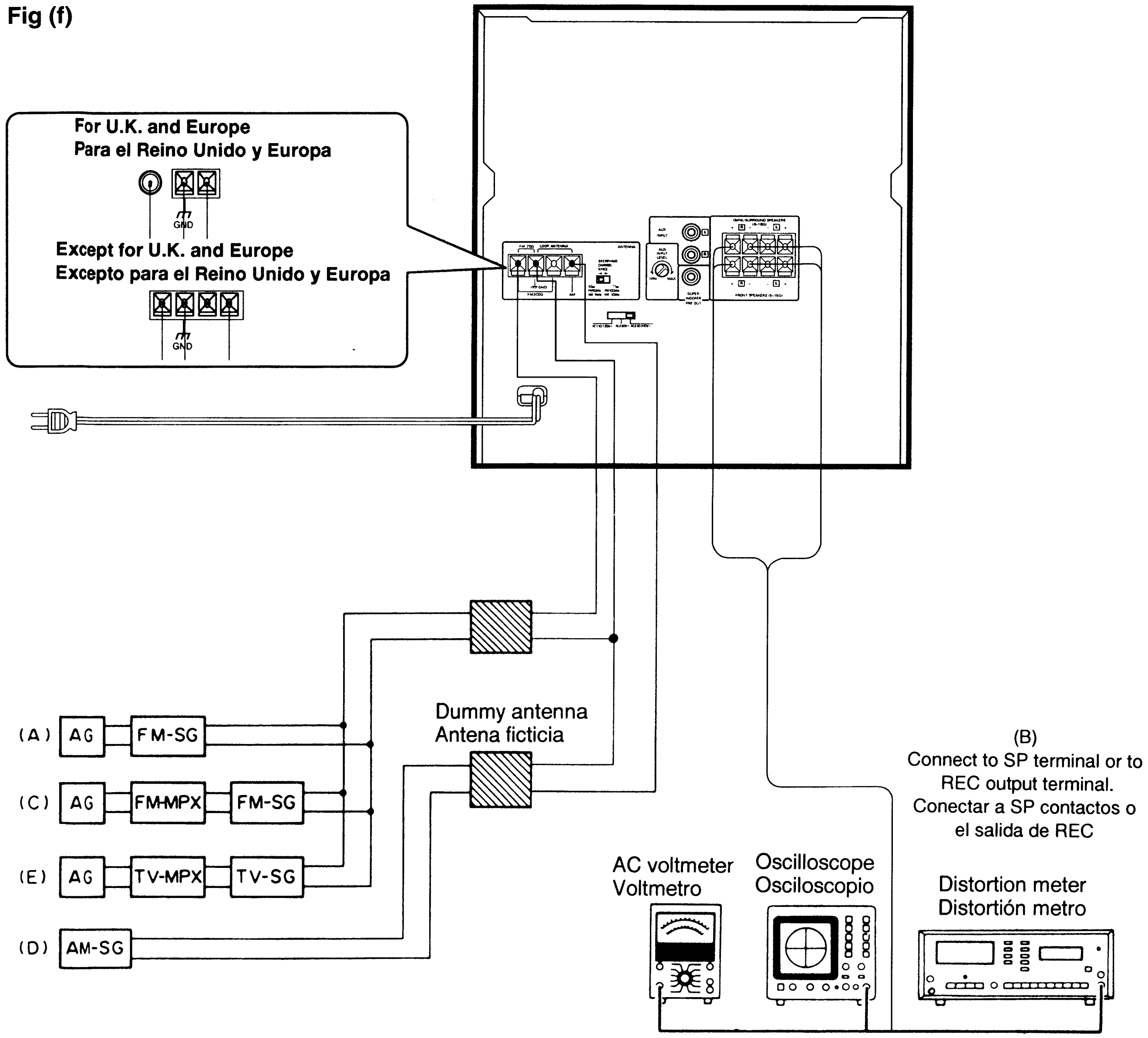
FIG. (d)



- ● RF signal in test mode (PLAY).
- ● Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

ADJUSTMENT

Fig (f)


For U.K. and Europe
Para el Reino Unido y Europa
GND
Except for U.K. and Europe
Excepto para el Reino Unido y Europa
GND
(A) AG FM-SG
(C) AG FM-MPX FM-SG
(E) AG TV-MPX TV-SG
(D) AM-SG
Dummy antenna
Antena ficticia
AC voltmeter
Voltmetro
Oscilloscope
Osciloscopio
Distortion meter
Distortión metro

(B)
Connect to SP terminal or to REC output terminal.
Conectar a SP contactos o el salida de REC

REC output : for X28 L ch, connect CN 5 pin 1;
for X28 R ch, connect CN5 pin 4.

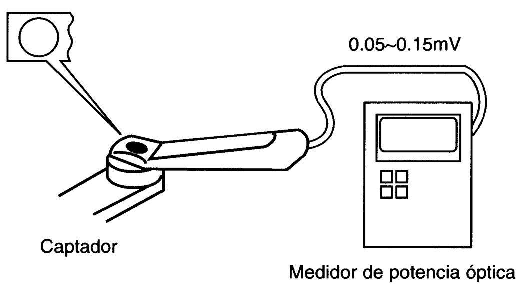
Salida de REC : X28 canal izp., Conectar CN 5 contactos no 1 a masa.
X28 canal dch., Conectar CN 5 contactos no 4 a masa.

AJUSTES

CD seccíon

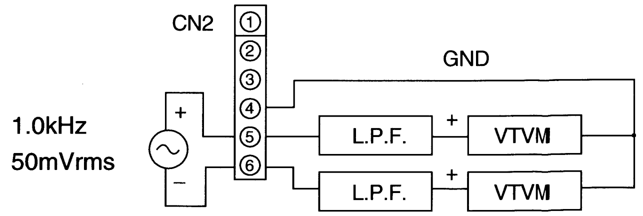
No.	ITEM	AJUSTE DE ENTRADA	AJUSTE DE SALIDA	AJUSTE DE REPRODUCTOR	PUNTO DE ALINEACION	ALINEAR PARA	FIG.
1	FUERZA LASER	-	Ajuste la sección de sensor sobre el medidor de potencia ótica sobre el lente de captaclon.	Cortocircuite las espigas TEST y conectar la fuerza para entrar al modo de prueba. Oprima el botón"REPEAT" para revisar que el visualizador esté en "03"	-	Sobre la fuerza de 0.05 a 0.15mW, cuando la rejilla de difracción está correctamente alineada con el nivel de RF de 1.0Vp-p o mayor.	(a)
2	EQUILIBRIO DE ERROR DE RASTREO	Disco de prueba Tipo 4	Conecta un osciloscopio como sigue: CH1 : RF(CN2-1) CH2 : TE(CN2-6)	Cargue disco y ponga al modo de prueba. Confirme que el visualizador está en "03"	EQUILIBRIO DE TE VR 3	Simetría entre superior e inferior, ó CC = 0±0.05V	
3	EQUILIBRIO DE ERROR DE POCO	Disco de prueba Tipo 4	Conecte un osciloscopio como sigue: CH1 : RF(CN2-1) CH2 : TE(CN2-6)	Oprima el botón PLAY. Confirme que el visualizador esta en "03".	EQUILIBRIO DE FE VR 4	Optimice el patrón de ojo.	
4	GANANCIA DE RASTREO	Disco de prueba Tipo 4 Aplique la señal de 1.0 kHz, 50mVrms a espigas 5-6 de CH.	Conecte un LPF a espigas 5-6 de CH, a que conecte un osciloscopio o voltimetro de CA.	Oprima el botón PLAY. Confirme que el visualizador está en "05".	GANANCIA DE RASTREO VR1	Dos VTVMs deberán indicar el mismo valor.	(e)

(a) Fuerza de Láser


0.05~0.15mV
Captador
Medidor de potencia óptica

(e) Ajuste de Ganancia de Rastreo

Ajuste de ganancia de rastreo.

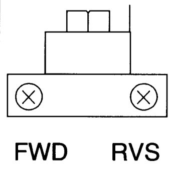

CN2
①
②
③
④
⑤
⑥
GND
1.0kHz
50mVrms
+
−
L.P.F.
+
VTVM
L.P.F.
+
VTVM

Ajuste del Modo de Prueba: insertar la clavija AC en la salida de CA presionando el botón CD.

NO.	Botón	Función	indicación NO. Pista
1	PLAY	Fijar el Disco 1 1. FOCUS SERVO ....ON 2. TRACKING SERVO ....ON 3. FEED SERVO ....ON	05
2	REPEAT	1. FOCUS SERVO ....ON 2. TRACKING SERVO.......................OFF 3. FEED SERVO...............................OFF	03
3	DISC1	Se inicia el PLAY a partir del Tno. 16	16
4	STOP	.Parada	01
5	DISC2	Seleccionar el Disco 1 para ponerto en el estado de despacho	—

ADJUSTMENT

Cassette Deck section

No	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: 0dBs=0.775V TAPE : NORMAL DOLBY : OFF REC OUT : Lch (X28,CN5 ①pin), Rch (X28,CN5 ④pin) I. Cassette mechanism unit (Adjustment of the REC / PLAY head)							
〈1〉	Demagnetization and cleaning	—	—	Power : OFF Demagnetization,cleaning, PLAY	Recording head, erase head,capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser.Clean the REC / PLAY head, erase head,capstan and pinch roller using a cotton swab slightly damped with alcohol.	
〈2〉	Azimuth of the REC/PLAY head	SCC–1727 TCC–153 MTT–114 10kHz, – 10dB	(B)	PLAY		Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	
II. PC BOARD ADJUSTMENT							
〈1〉	TAPE SPEED(NORMAL)	TCC–110 MTT–111 SCC–1727 3kHz	(B)	PLAY	VR52	Adjust the tape speed so that 3kHz is obtained at the center of the tape.	
III. PC BOARD ADJUSTMENT							
〈1〉	PLAYBACK LEVEL	MTT– 150 400Hz	(B)	PLAY	A DECK VR 1(L) VR 2 (R) B DECK VR 3 (L) VR4 (R)	Adjust the playback output to -2.0dBs	
		MTT–256, SCC–1727 315Hz				Adjust the playback output to -6.0dBs	
		MTT–256U, TCC–160 315Hz				Adjust the playback output to -3.0dBs	
〈2〉	BIAS CURRENT	Adjust the AG for the output of the DECK to become 400Hz –23dBs. 400Hz/12.5kHz, (AC-223)	(B)	REC ↕ PLAY	VR7(L) VR8(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the +3dB.	

ADJUSTMENT

TUNER section

K.P.M.X.R, I Type (X09-)

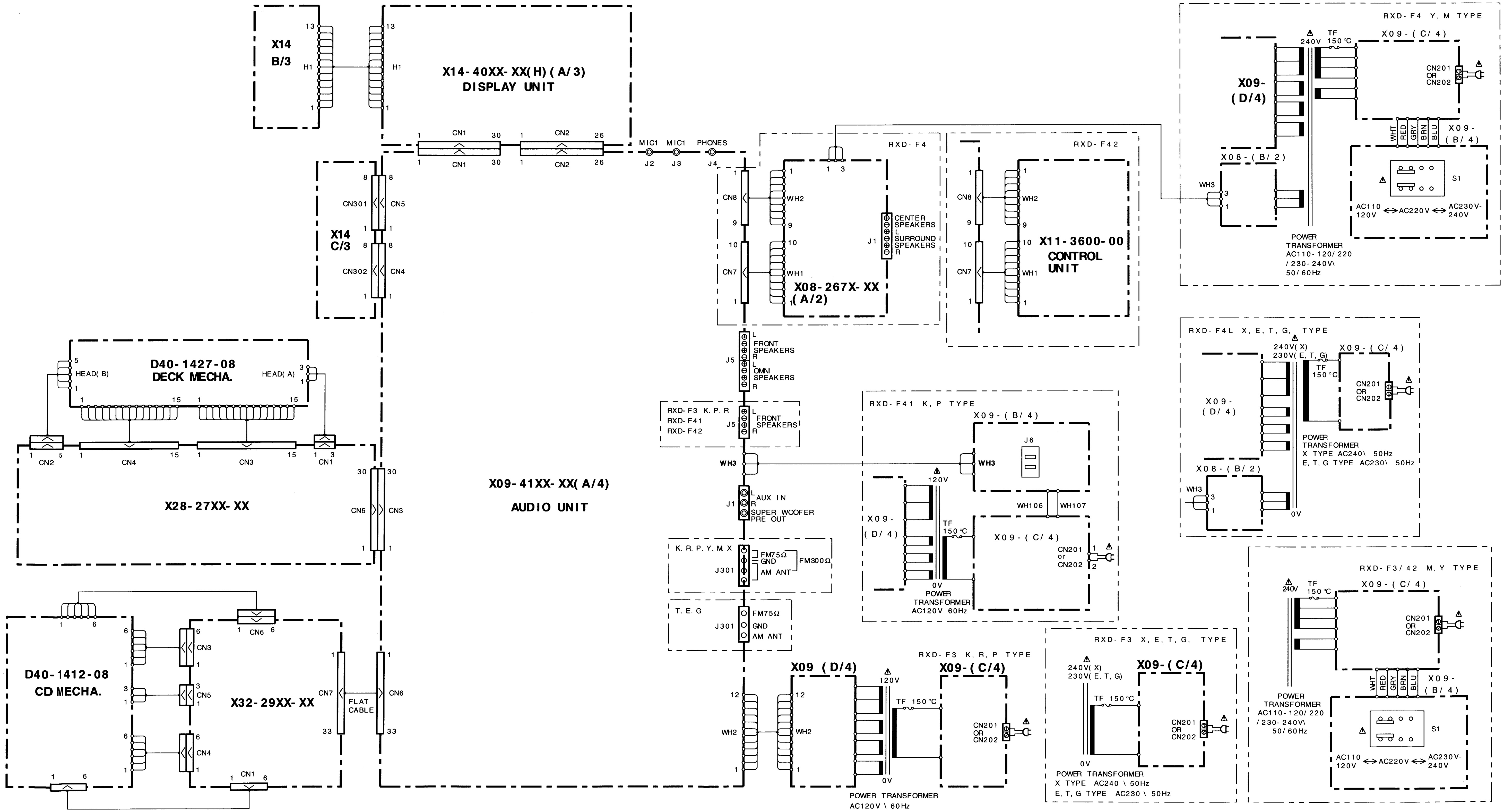
No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(f)

E.T.G Type (X09-)

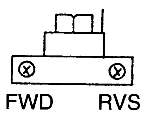
No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75 kHz dev 60 dBμ(ANT input)	Connect a DC voltmeter between TP303 and TP304. (X09-)	AUTO or MONO 98.0MHz	L3 (X09-)	0V	(f)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ (ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(f)

RXD-F3/F4/F41/F42 RXD-F3/F4/F41/F42

WIRING DAIGRAM


X14 B/3
H1
X14-40XX-XX(H) (A/3) DISPLAY UNIT
CN1
CN2
MIC1 J2
MIC1 J3
PHONES J4
X14 C/3
CN301
CN302
CN5
CN4
D40-1427-08 DECK MECHA.
HEAD(B)
HEAD(A)
X28-27XX-XX
CN4
CN3
CN2
CN1
CN6
CN3
X09-41XX-XX(A/4) AUDIO UNIT
D40-1412-08 CD MECHA.
X32-29XX-XX
CN3
CN5
CN4
CN6
CN1
CN7
FLAT CABLE
CN6
RXD-F4
CN8
CN7
WH2
WH1
X08-267X-XX (A/2)
J1
CENTER SPEAKERS
L SURROUND SPEAKERS R
RXD-F42
X11-3600-00 CONTROL UNIT
J5
L FRONT SPEAKERS R
L OMNI SPEAKERS R
RXD-F3 K.P.R
RXD-F41
RXD-F42
L FRONT SPEAKERS R
WH3
J1
L AUX IN R
SUPER WOOFER PRE OUT
K.R.P.Y.M.X
J301
FM75Ω
GND
AM ANT
FM300Ω
T.E.G
J301
FM75Ω
GND
AM ANT
WH2
RXD-F41 K, P TYPE
X09-(B/4)
J6
WH3
X09-(D/4)
120V
TF 150°C
X09-(C/4)
WH106
WH107
CN201 or CN202
0V
POWER TRANSFORMER AC120V 60Hz
RXD-F3 K, R, P TYPE
X09 (D/4)
X09-(C/4)
120V
TF 150°C
CN201 OR CN202
0V
POWER TRANSFORMER AC120V \ 60Hz
RXD-F3 X, E, T, G, TYPE
240V(X)
230V(E, T, G)
X09-(C/4)
TF 150°C
CN201 OR CN202
0V
POWER TRANSFORMER
X TYPE AC240 \ 50Hz
E, T, G TYPE AC230 \ 50Hz
RXD-F4 Y, M TYPE
240V
TF 150°C
X09-(C/4)
X09-(D/4)
CN201 OR CN202
WHT
RED
GRY
BRN
BLU
X09-(B/4)
X08-(B/2)
WH3
S1
AC110 120V
AC220V
AC230V-240V
POWER TRANSFORMER AC110-120/220 /230-240V\ 50/60Hz
RXD-F4L X, E, T, G, TYPE
240V(X)
230V(E, T, G)
TF 150°C
X09-(C/4)
X09-(D/4)
CN201 OR CN202
POWER TRANSFORMER
X TYPE AC240\ 50Hz
E, T, G TYPE AC230\ 50Hz
X08-(B/2)
WH3
0V
RXD-F3/42 M, Y TYPE
240V
TF 150°C
X09-(C/4)
CN201 OR CN202
WHT
RED
GRY
BRN
BLU
X09-(B/4)
POWER TRANSFORMER AC110-120/220 /230-240V\ 50/60Hz
S1
AC110 120V
AC220V
AC230V-240V

Cassette Deck seccíon

Orden	Ítem	Ajuste de entrada	Ajuste de salida	Ajuste de la Deck	Puntos de ajuste	MÈtodo de ajuste	Fig.
A menos que se indique lo contrario, ajustar los interruptores respectivos de la manera siguiente: **TAPE: NORMAL DOLBY: OFF INPUT: AUX REC OUT** : IZQ. (X28 , CN5 ① PIN), DCH. (X28 , CN5 ④ PIN) **I. Sección del mecanismo de la cassette (ajuste de la cabeza de grabación/reproducción)**							
1	Desmagnetización y limpieza	—	—	Alimentación: apagado, desmagnetización, limpieza, reproducción	Cabezas de grabación, cabezas de borrado, ejes de arrastre, rodillos presores	Desmagnetizar las cabezas de grabación/reproducción con un borrador de cabezas. Limpiar las cabezas de grabación/reproducción, cabezas de borrado, ejes de arrastre y rodillos presores con un bastoncillo de algodón humedecido en alcohol.	
2	Acimut de la cabeza de grabación/reproducción	SCC-1727, TCC-153, MTT-144, 10kHz, -10dBs	(B)	REPRODUCCIÓN (PLAY)		Maximizar la salida y ajustar de manera que la forma de Lissajous se aproxime a una lìnea inclinada 45˚	
II. Ajuste de la tarjeta de circuito impreso							
1	Velocidad de la cinta (normal)	SCC-1727, TCC-110, MTT-111, 3kHz	(B)	REPRODUCCIÓN (PLAY)	VR52	Ajustar de manera que la frecuencia sea de 3 kHz en el centro de la cinta.	
III. Ajuste de la tarjeta de circuito impreso (X28-2620-00)							
1	Nivel de reproducción	MTT-150 400Hz	(B)	REPRODUCCIÓN (PLAY)	PLATINA A: VR 1 (IZQ.) VR 2 (DCH.) PLATINA B: VR3 (IZQ.) VR4 (DCH.)	Nival de salida : -2.0 dB	
		MTT-256,SCC-1727 315Hz				Nival de salida : -6.0 dB	
		MTT-256,TCC-160 315Hz				Nival de salida : -3.0 dB	
2	Corriente de polarización	Ajustar el AG de talmanuera que la salida del chasis sea de -23 dBs en 400 Hz.	(B)	GRABACIÓN (REC) ↕ REPRODUCCIÓN (PLAY)	PLATINA B: VR7 (IZQ.) VR8 (DCH.)	Hacer la grabación en forma alterna en 400 Hz y 12.5 kHz, y ajustar el volumen de regulación de corriente de polarización de tal manera que el nivel de reproducción en 12.5 kHz sea mayor por +3dB que en caso de 400Hz.	

TUNER seccíon

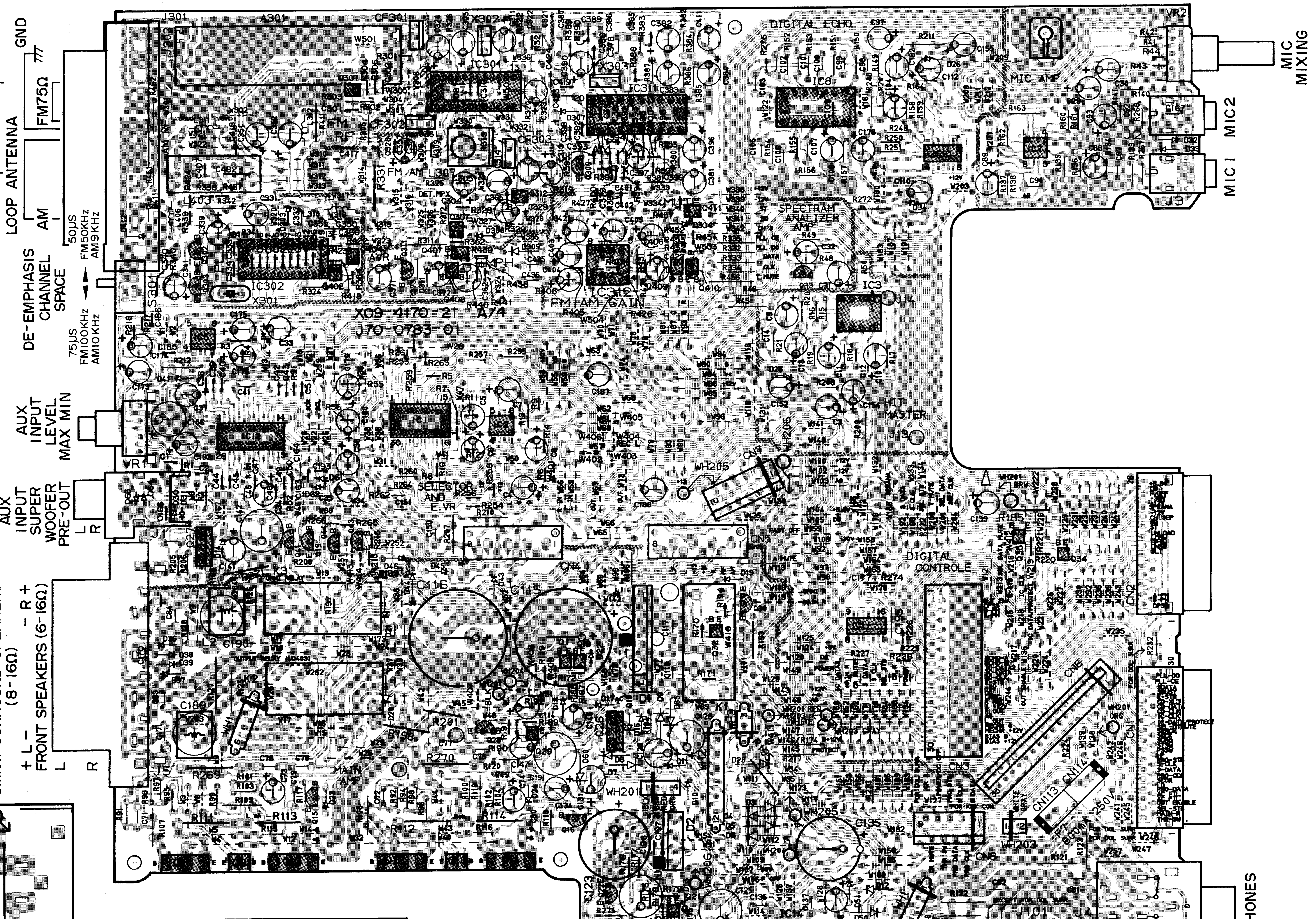
Tipo M.X.R, I (X09−)

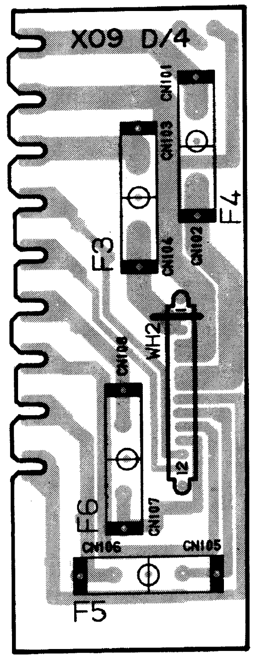
No	ITEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE CALIBRACIÓN	CALIBRA R EN	FIG.
SECCIÓN DE FM BANDA: FM							
1	DISTORSIÓN (ESTÉREO)	(C) 98,0 MHz 1 kHz, ±68,25 kHz desv. Piloto: ±7,5 kHz desv. 60 dBμ (entrada ANT)	(B)	AUTO 98,0 Mhz	IFT (W02-)	Distorsión mínima	(f)

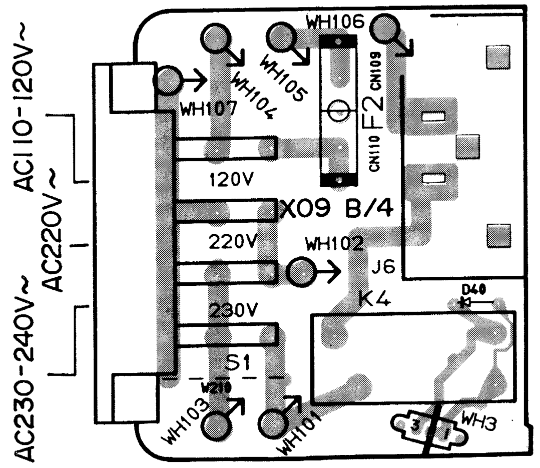
Tipo E.T.G (X09−)

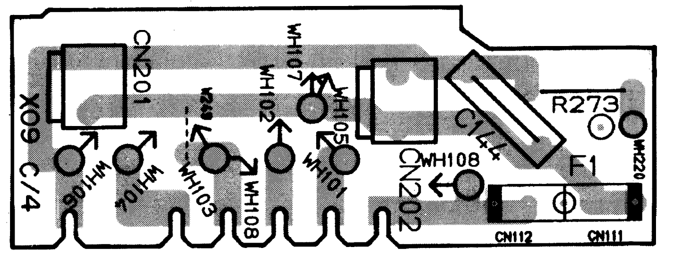
No	iTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE CALIBRACIÓN	CALIBRA R EN	FIG.
FM SECTION BAND : FM							
1	DISCRIMINADOR	(A) 98,0 MHz 1 kHz, ±75 kHz desv. 60 dBμ (entrada ANT)	Conectar un voltìmetro de CC entre TP 303 y TP304. (X05-)	AUTO o MONO 98,0 MHz	L307 (X09-)	0V	(f)
2	DISTORSIÓN (ESTÉREO)	(C) 98,0 MHz 1 kHz, ±68,25 kHz desv. Piloto: ±7,5 kHz desv. 60 dBm (entrada ANT)	(B)	AUTO 98,0 MHz	IFT (W02-)	Distorsión mínima	(f)

PC BOARD(COMPONENT SIDE VIEW) AUDIO UNIT(X09-) : K,R,P,Y,M,X type


GND
FM75Ω
FM300Ω
LOOP ANTENNA
AM
50μS FM50KHz AM9KHz
DE-EMPHASIS CHANNEL SPACE
75μS FM100KHz AM10KHz
AUX INPUT LEVEL MAX MIN
AUX INPUT SUPER WOOFER PRE-OUT
L R
OMNI/SURROUND SPEAKERS (8-16Ω)
+ L - - R +
FRONT SPEAKERS (6-16Ω)
L R
DIGITAL ECHO
MIC AMP
MIC MIXING
MIC2
MIC1
SPECTRAM ANALIZER AMP
FM AM GAIN
X09-4170-21 A/4
J70-0783-01
HIT MASTER
SELECTOR AND E.VR
DIGITAL CONTROLE
MAIN AMP
PHONES
FRONT


X09 D/4
F3
F4
F5
F6

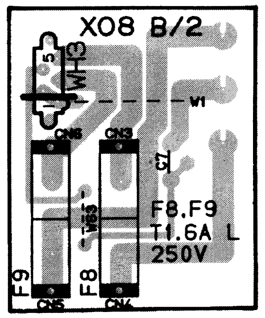

AC110-120V~
AC220V~
AC230-240V~
120V
220V
230V
X09 B/4
F2
K4
S1
J6

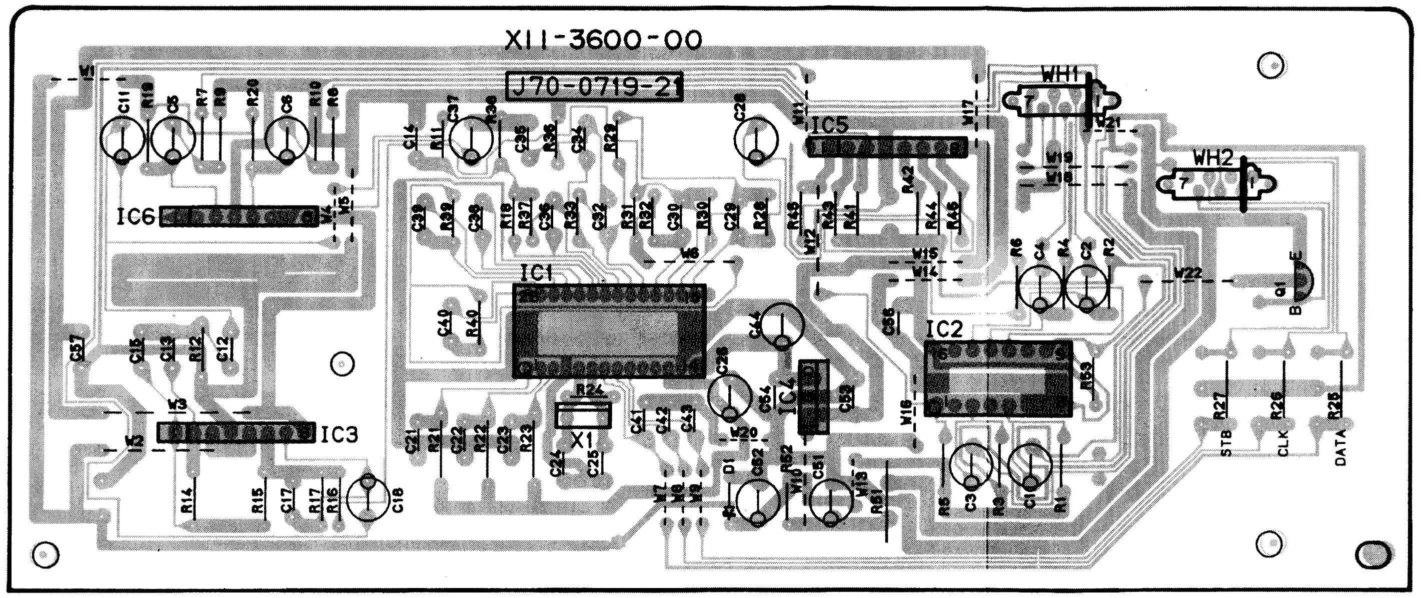

X09 C/4
CN201
CN202
R273
C144
F1

Refer to the schematic diagram for the value of resistors and capacitors.

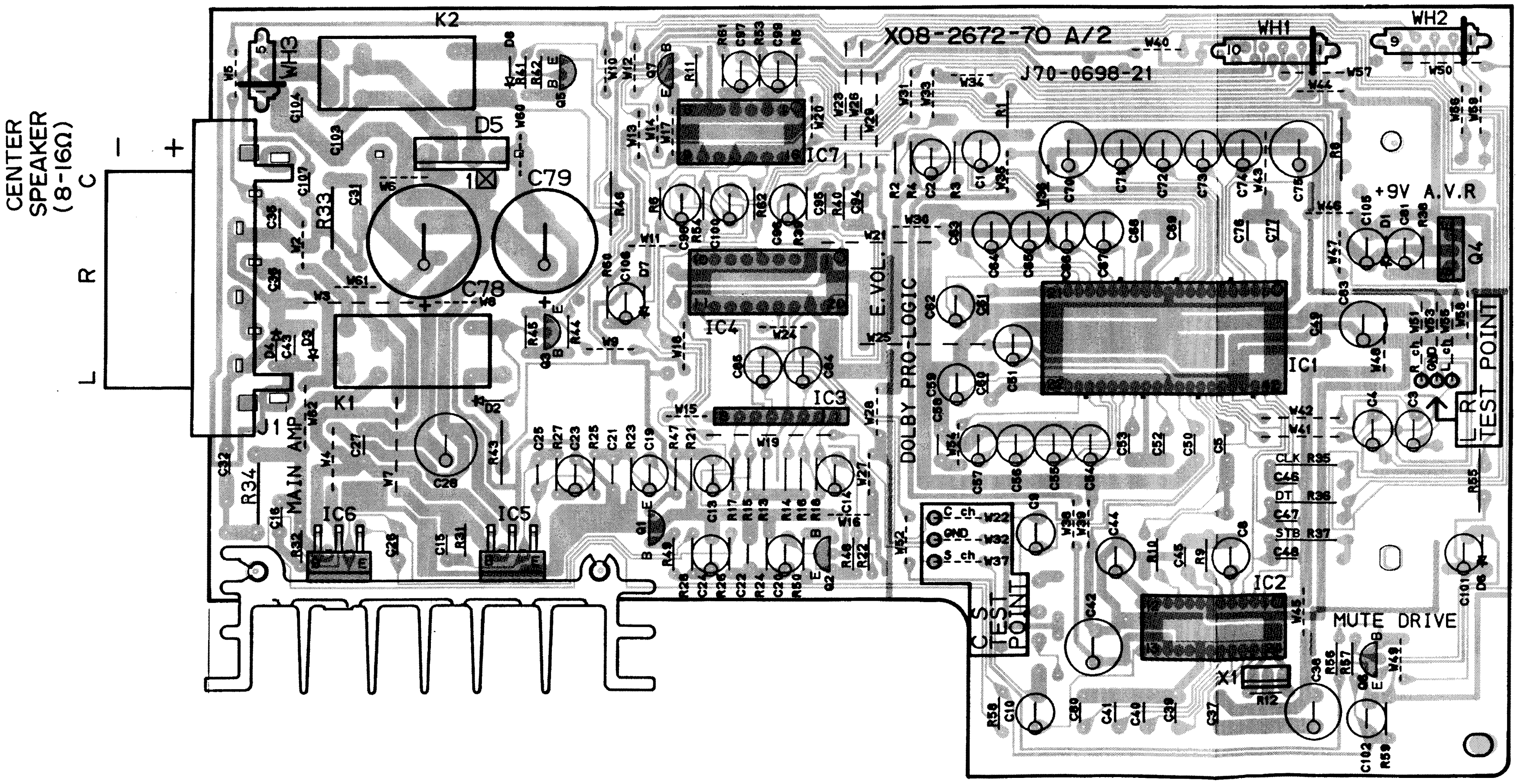
PC BOARD(COMPONENT SIDE VIEW)

CONTROL UNIT (X11-3600-00) : RXD-F42

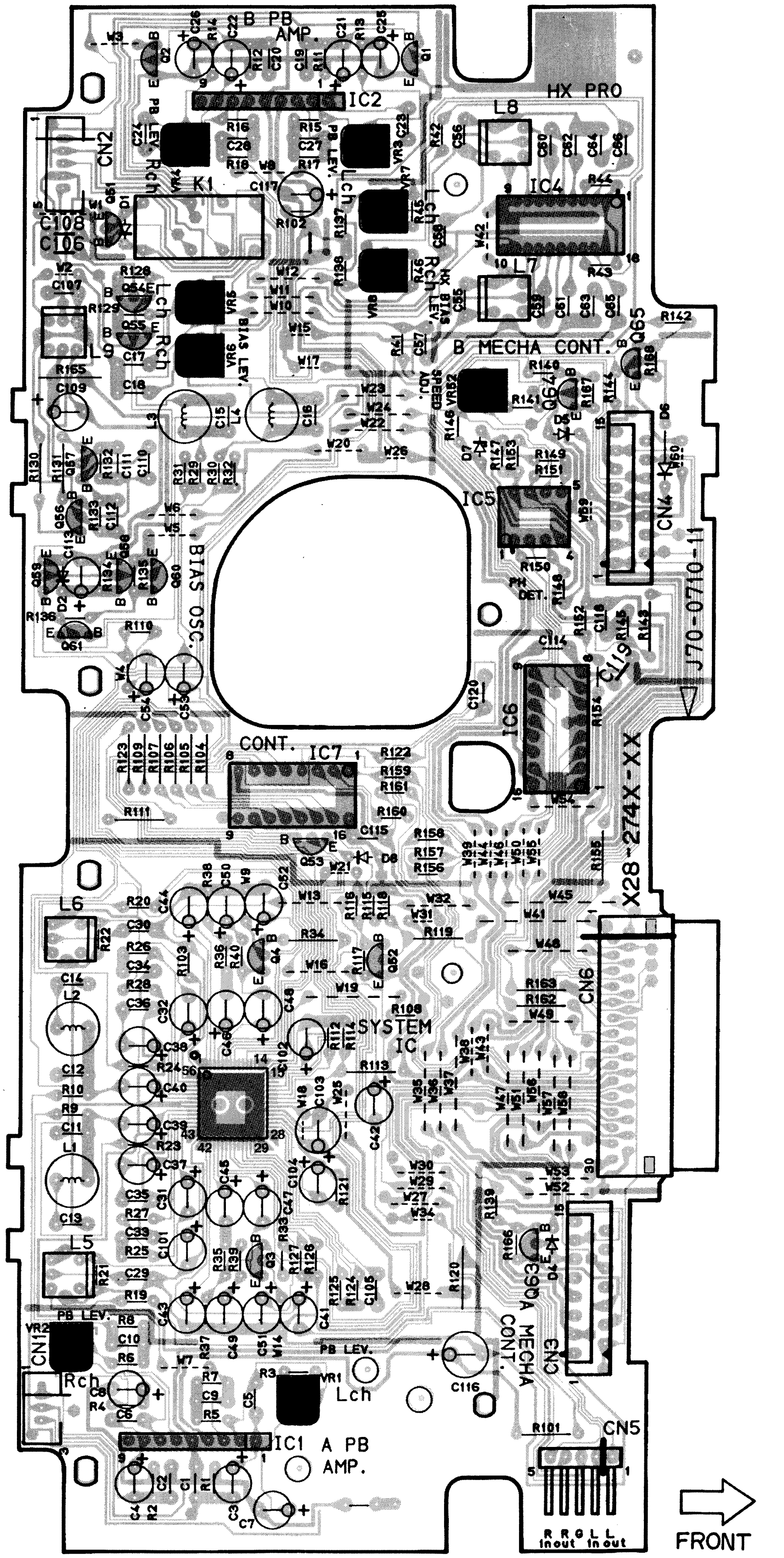

X08 B/2
WH3
W1
F8,F9
T1.6A L
250V
F9
F8
CN5
CN4


X11-3600-00
J70-0719-21
IC1
IC2
IC3
IC4
IC5
IC6
WH1
WH2
X1
STB
CLK
DATA

SURROUND UNIT (X08-267X-XX) : RXD-F4/F4L/F42


CENTER SPEAKER (8-16Ω)
C
R
L
−
+
K2
K1
WH3
D5
C79
C78
R33
R34
MAIN AMP
IC6
IC5
IC7
IC4
IC3
IC2
IC1
X08-2672-70 A/2
J70-0698-21
WH1
WH2
+9V A.V.R
Q4
E.VOL.
DOLBY PRO-LOGIC
R_ch
GND
L_ch
R TEST POINT
C_ch
GND
S_ch
C S TEST POINT
CLK R35
DT R36
STB R37
MUTE DRIVE
X1

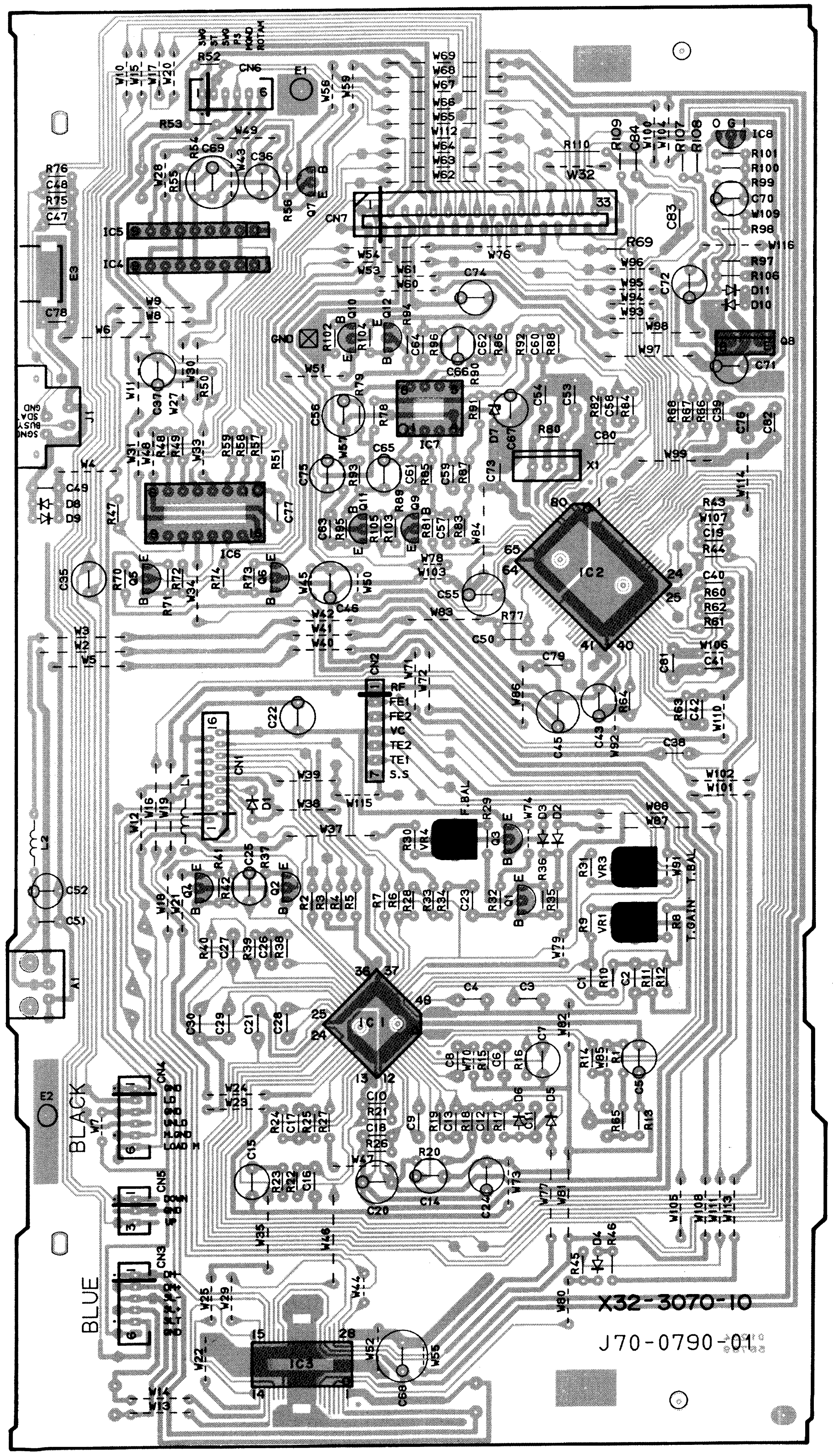
RECORD / PLAY BACK UNIT (X28-)


B PB AMP.
IC2
HX PRO
L8
CN2
K1
Lch
Rch
IC4
L7
B MECHA CONT.
IC5
CN4
J70-0710-11
BIAS OSC.
IC6
CONT.
IC7
X28-274X-XX
L6
L2
SYSTEM IC
CN6
L1
L5
PB LEV.
VR2
CN1
Rch
VR1
Lch
IC1 A PB AMP.
A MECHA CONT
CN3
CN5
R R G L L
in out in out
FRONT

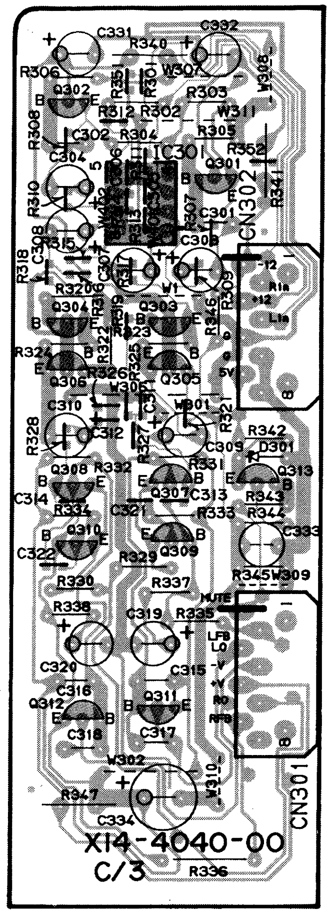
Refer to the schematic diagram for the value of resistors and capacitors.

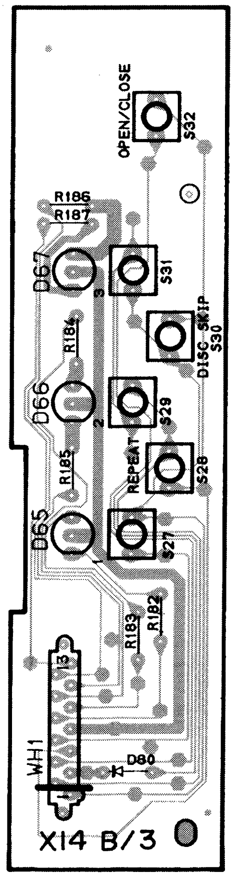
PC BOARD(COMPONENT SIDE VIEW)

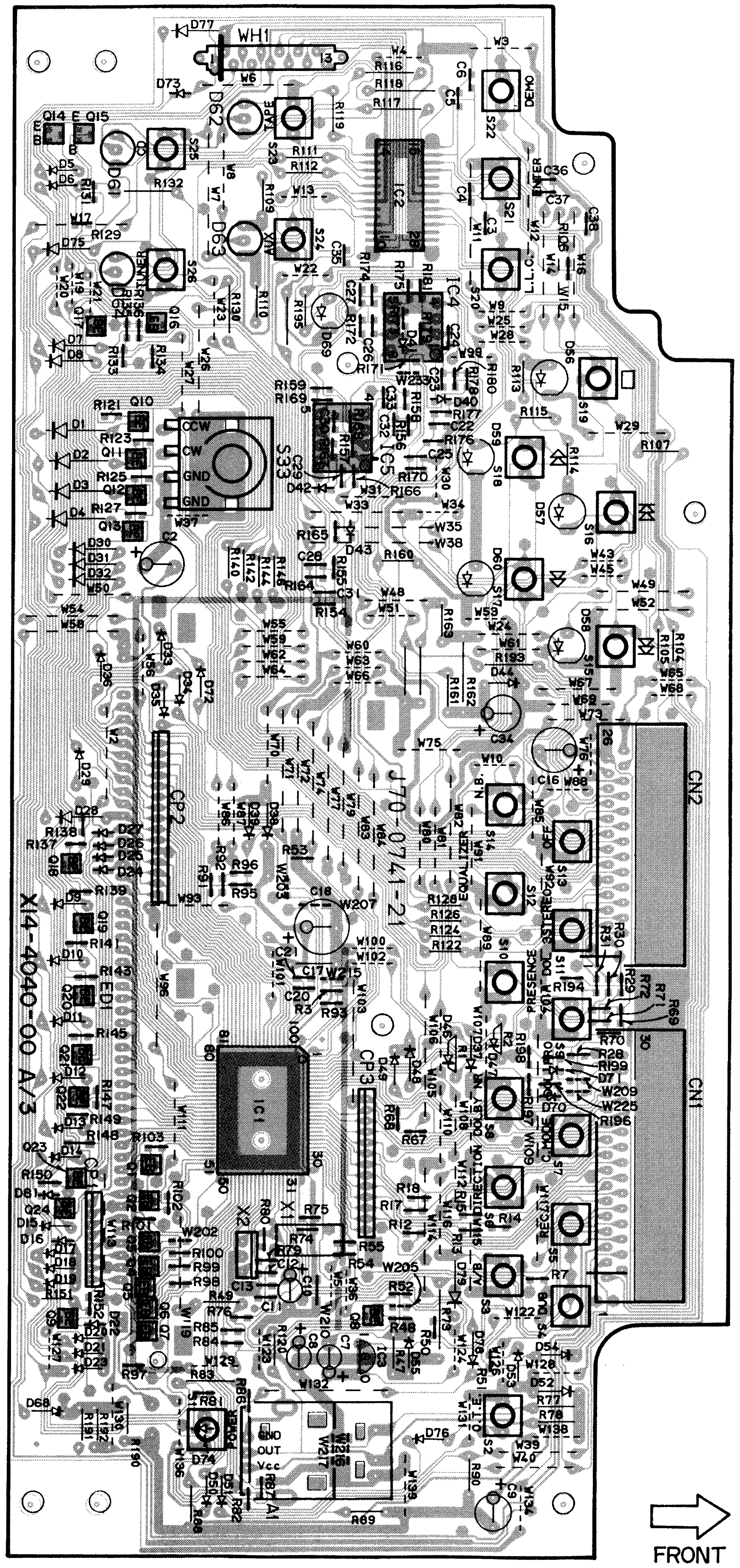
CD PLAYER UNIT(X32-)


X32-3070-10
J70-0790-01
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
CN1
CN2
CN3
CN4
CN5
CN6
CN7
BLACK
BLUE
F.BAL
T.BAL
T.GAIN
E1
E2
E3

DISPLAY UNIT(X14-)

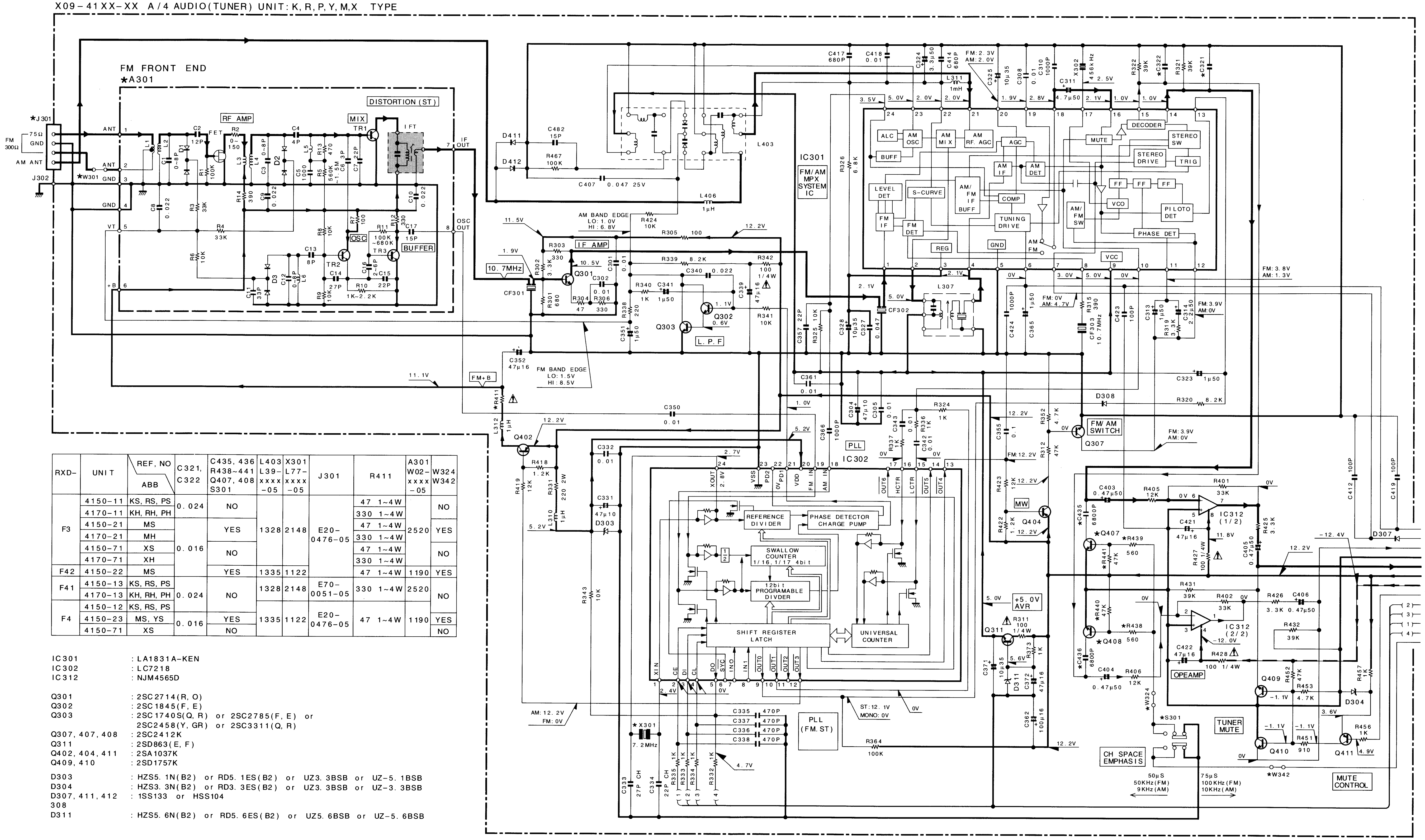

X14-4040-00
C/3
IC301
CN301
CN302


X14 B/3
OPEN/CLOSE
S32
S31
DISC SKIP
S30
REPEAT
S29
S28
S27
D65
D66
D67
WH1


X14-4040-00 A/3
J70-0741-21
IC1
IC2
IC4
IC5
CN1
CN2
CP2
CP3
S33
WH1
FRONT

Refer to the schematic diagram for the value of resistors and capacitors.

X09-41XX-XX A/4 AUDIO(TUNER) UNIT: K, R, P, Y, M, X TYPE


FM FRONT END
★A301
RF AMP
MIX
DISTORTION (ST)
IFT
IF OUT
OSC OUT
OSC
BUFFER
★J301
FM 300Ω
75Ω
GND
AM ANT
J302
★W301
ANT
GND
VT
+B
10.7MHz
CF301
IF AMP
Q301
Q302
Q303
L.P.F
AM BAND EDGE LO: 1.0V HI: 6.8V
FM BAND EDGE LO: 1.5V HI: 8.5V
FM+B
IC301
FM/AM MPX SYSTEM IC
ALC
AM OSC
AM MIX
AM RF. AGC
AGC
BUFF
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
TUNING DRIVE
FM IF
FM DET
REG
GND
AM IF
AM DET
MUTE
DECODER
STEREO SW
STEREO DRIVE
TRIG
FF
VCO
PILOTO DET
AM/FM SW
PHASE DET
VCC
CF302
L307
L403
FM: 3.8V AM: 1.3V
FM/AM SWITCH
Q307
PLL
IC302
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
PLL (FM.ST)
★X301
7.2MHz
+5.0V AVR
Q311
MW
Q404
★Q407
★Q408
IC312 (1/2)
IC312 (2/2)
OPEAMP
Q409
Q410
Q411
TUNER MUTE
CH SPACE EMPHASIS
★S301
50μS 50KHz(FM) 9KHz(AM)
75μS 100KHz(FM) 10KHz(AM)
★W324
★W342
MUTE CONTROL
D307
SD
STEREO
Rch
GND
Lch
+12V
-12V
T. MUTE
DATA
CLK
CE
DO
CH SPACE
AM: 12.2V FM: 0V
ST: 12.1V MONO: 0V

RXD-	UNIT	REF, NO / ABB	C321, C322	C435, 436 R438~441 Q407, 408 S301	L403 L39-xxxx-05	X301 L77-xxxx-05	J301	R411	A301 W02-xxxx-05	W324 W342
F3	4150-11	KS, RS, PS	0.024	NO	1328	2148	E20-0476-05	47 1~4W	2520	NO
	4170-11	KH, RH, PH						330 1~4W		
	4150-21	MS	0.016	YES				47 1~4W		YES
	4170-21	MH						330 1~4W		
	4150-71	XS		NO				47 1~4W		NO
	4170-71	XH						330 1~4W		
F42	4150-22	MS		YES	1335	1122		47 1~4W	1190	YES
F41	4150-13	KS, RS, PS	0.024	NO	1328	2148	E70-0051-05	330 1~4W	2520	NO
	4170-13	KH, RH, PH								
F4	4150-12	KS, RS, PS			1335	1122	E20-0476-05	47 1~4W	1190	
	4150-23	MS, YS	0.016	YES						YES
	4150-71	XS		NO						NO

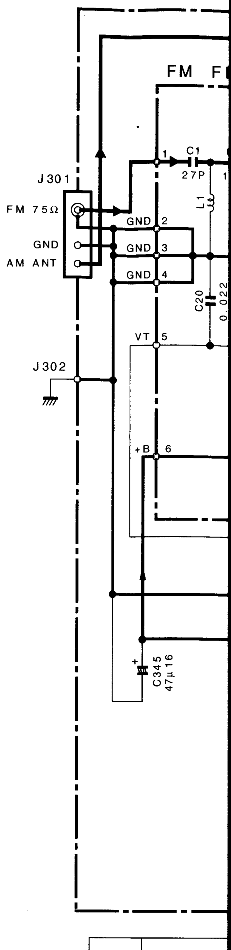
IC301	: LA1831A-KEN
IC302	: LC7218
IC312	: NJM4565D
Q301	: 2SC2714(R, O)
Q302	: 2SC1845(F, E)
Q303	: 2SC1740S(Q, R) or 2SC2785(F, E) or 2SC2458(Y, GR) or 2SC3311(Q, R)
Q307, 407, 408	: 2SC2412K
Q311	: 2SD863(E, F)
Q402, 404, 411	: 2SA1037K
Q409, 410	: 2SD1757K
D303	: HZS5. 1N(B2) or RD5. 1ES(B2) or UZ3. 3BSB or UZ-5. 1BSB
D304	: HZS3. 3N(B2) or RD3. 3ES(B2) or UZ3. 3BSB or UZ-3. 3BSB
D307, 411, 412 308	: 1SS133 or HSS104
D311	: HZS5. 6N(B2) or RD5. 6ES(B2) or UZ5. 6BSB or UZ-5. 6BSB

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

(NOTE) The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below.
The measurement value may vary depending on the measuring instruments used or on the product. the value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1KHz	STEREO 67.5KHz 7.5KHz(Pilot)	60dB
AM	1000(999)KHz	400Hz	MONO 30% MOD	60dB

X09-41XX-X


FM F
J301
FM 75Ω
GND
AM ANT
J302
GND
VT
+B
C1
27P
C20
C345

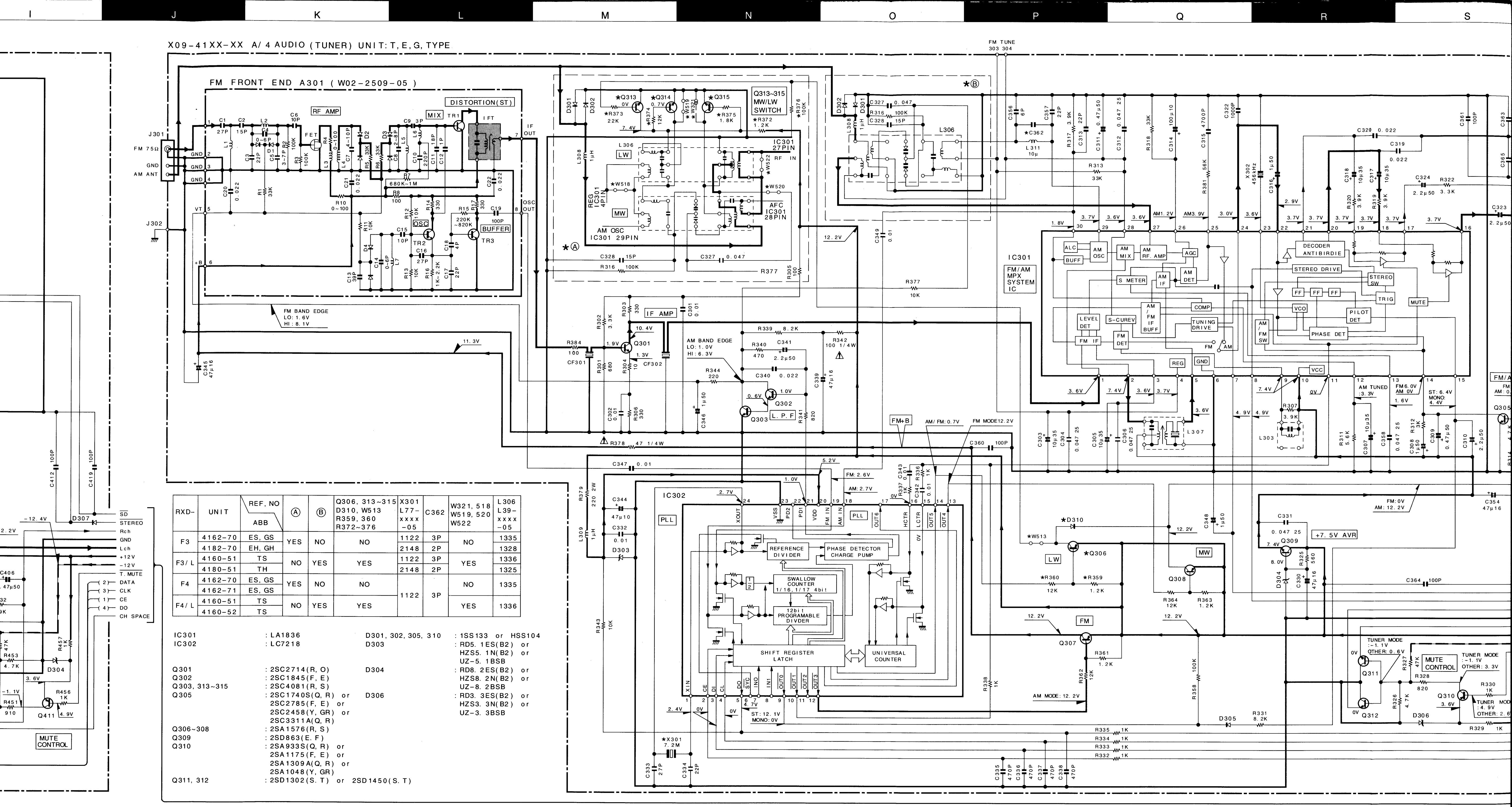
RXD-	UNIT
F3	4162-70
	4182-70
F3/L	4160-51
	4180-51
F4	4162-70
	4162-71
F4/L	4160-51
	4160-52

IC301
IC302

Q301
Q302
Q303, 313~315
Q305

Q306~308
Q309
Q310

Q311, 312


I
J
K
L
M
N
O
P
Q
R
S
X09-41XX-XX A/4 AUDIO (TUNER) UNIT: T, E, G, TYPE
FM FRONT END A301 (W02-2509-05)
RF AMP
MIX
DISTORTION(ST)
IFT
IF OUT
OSC OUT
OSC
BUFFER
TR1
TR2
TR3
FET
J301
FM 75Ω
GND
AM ANT
J302
FM BAND EDGE
LO: 1.6V
HI: 8.1V
FM TUNE 303 304
Q313~315 MW/LW SWITCH
IC301 27PIN
RF IN
AFC IC301 28PIN
REG IC301 4PIN
AM OSC IC301 29PIN
LW
MW
L306
IF AMP
CF301
CF302
Q301
Q302
Q303
L.P.F
AM BAND EDGE
LO: 1.0V
HI: 6.3V
IC301
FM/AM MPX SYSTEM IC
ALC
BUFF
AM OSC
AM MIX
AM RF. AMP
AGC
DECODER ANTIBIRDIE
STEREO DRIVE
S METER
AM IF
AM DET
STEREO SW
TRIG
MUTE
FF
VCO
PILOT DET
COMP
LEVEL DET
S-CUREV
AM FM IF BUFF
TUNING DRIVE
AM FM SW
PHASE DET
FM IF
FM DET
REG
GND
VCC
L307
L303
FM+B
AM/FM: 0.7V
FM MODE12.2V
IC302
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
XOUT
VSS
PD2
PD1
VDD
FM IN
AM IN
OUT6
HCTR
LCTR
OUT5
OUT4
XIN
CE
DI
CL
DO
SYC
INO
IN1
OUT0
OUT1
OUT2
OUT3
X301 7.2M
ST: 12.1V
MONO: 0V
AM MODE: 12.2V
Q306
Q307
Q308
Q309
Q310
Q311
Q312
FM
MW
LW
+7.5V AVR
MUTE CONTROL
TUNER MODE :-1.1V OTHER: 0.6V
TUNER MODE :4.9V OTHER: 3.3V
TUNER MODE :-1.1V OTHER: 2.6V
FM: 0V
AM: 12.2V
SD
STEREO
Rch
GND
Lch
+12V
-12V
T. MUTE
DATA
CLK
CE
DO
CH SPACE
D307
D304
Q411
MUTE CONTROL
Ⓐ
Ⓑ

RXD-	UNIT	REF, NO / ABB	Ⓐ	Ⓑ	Q306, 313~315 D310, W513 R359, 360 R372~376	X301 L77-xxxx-05	C362	W321, 518 W519, 520 W522	L306 L39-xxxx-05
F3	4162-70	ES, GS	YES	NO	NO	1122	3P	NO	1335
	4182-70	EH, GH				2148	2P		1328
F3/L	4160-51	TS	NO	YES	YES	1122	3P	YES	1336
	4180-51	TH				2148	2P		1325
F4	4162-70	ES, GS	YES	NO	NO	1122	3P	NO	1335
	4162-71	ES, GS							
F4/L	4160-51	TS	NO	YES	YES			YES	1336
	4160-52	TS							

IC301 : LA1836
IC302 : LC7218

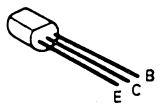
Q301 : 2SC2714(R, O)
Q302 : 2SC1845(F, E)
Q303, 313~315 : 2SC4081(R, S)
Q305 : 2SC1740S(Q, R) or
2SC2785(F, E) or
2SC2458(Y, GR) or
2SC3311A(Q, R)
Q306~308 : 2SA1576(R, S)
Q309 : 2SD863(E. F)
Q310 : 2SA933S(Q, R) or
2SA1175(F, E) or
2SA1309A(Q, R) or
2SA1048(Y, GR)
Q311, 312 : 2SD1302(S. T) or 2SD1450(S. T)

D301, 302, 305, 310 : 1SS133 or HSS104
D303 : RD5. 1ES(B2) or
HZS5. 1N(B2) or
UZ-5. 1BSB
D304 : RD8. 2ES(B2) or
HZS8. 2N(B2) or
UZ-8. 2BSB
D306 : RD3. 3ES(B2) or
HZS3. 3N(B2) or
UZ-3. 3BSB

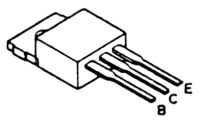
	ANT INPUT
lot)	60dB
	60dB

2SA1534A
2SA954
2SA992
2SC1845
2SC1923
2SC2003
2SC2878

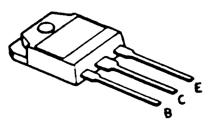
2SC3246
2SC3940A
2SD1302
2SD863



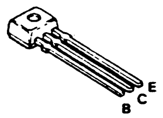
2SB1565



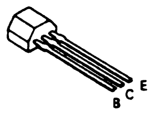
2SB1565
2SB1624
2SD2493



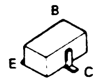
2SA1175
2SC2785



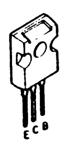
DTA124ES
DTC124ES
UN4112
2SA1048
2SA933S
2SC1740S
2SC2458



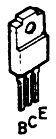
DTC124EU
2SA1037K
2SA1576
2SC2412K
2SC2714
2SC4081
2SD1757K



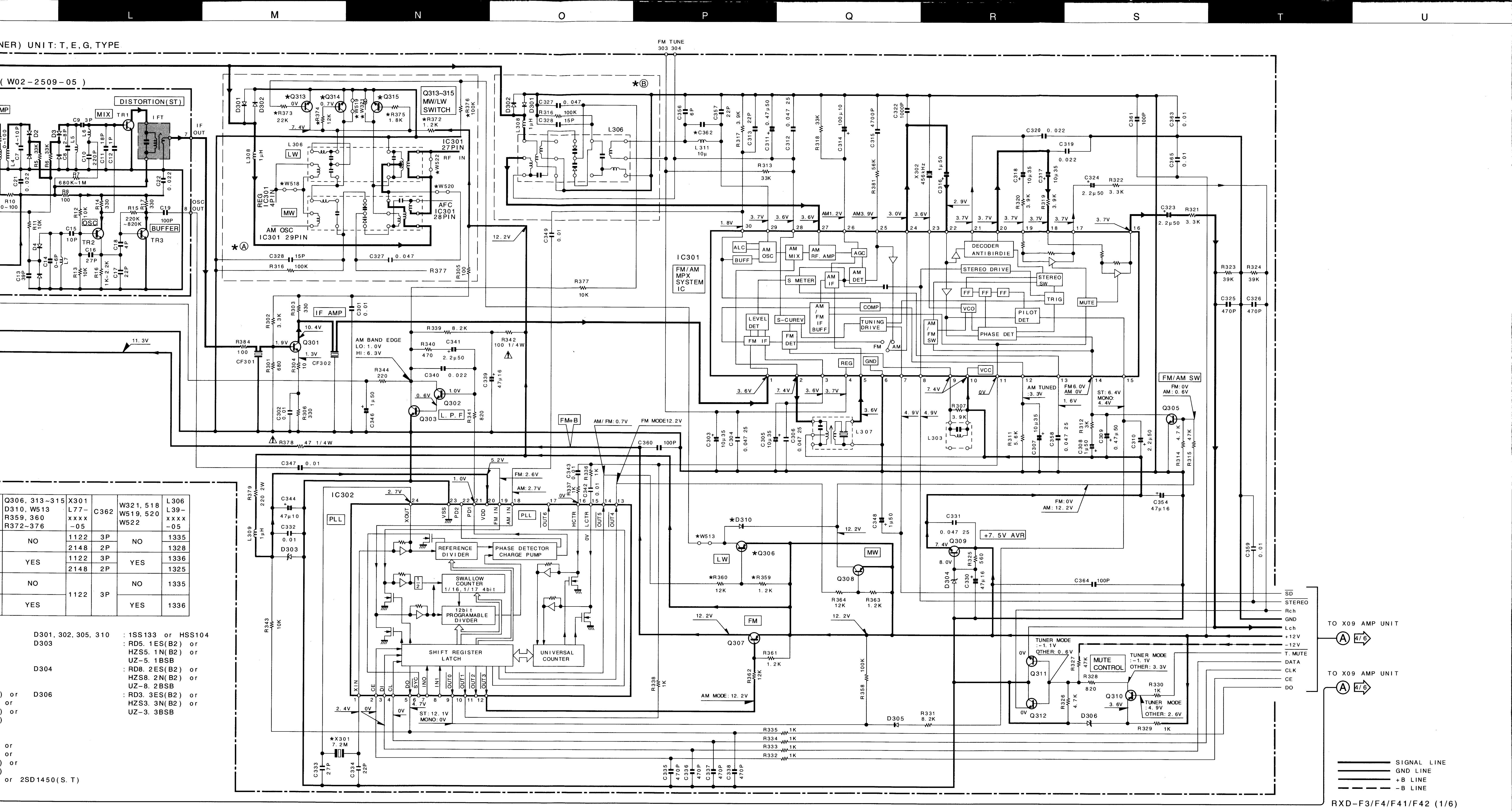
2SC4137



2SB1370
2SD2061



Y39-2130-11


L
M
N
O
P
Q
R
S
T
U
NER) UNIT: T, E, G, TYPE
(W02-2509-05)
FM TUNE 303 304
DISTORTION(ST)
MIX
OSC
BUFFER
IFT
IF OUT
OSC OUT
Q313~315 MW/LW SWITCH
LW
MW
REG IC301 4PIN
AM OSC IC301 29PIN
IC301 27PIN RF IN
AFC IC301 28PIN
L306
IF AMP
AM BAND EDGE LO: 1.0V HI: 6.3V
L.P.F
FM+B
IC301
FM/AM MPX SYSTEM IC
ALC
BUFF
AM OSC
AM MIX
AM RF. AMP
AGC
S METER
AM IF
AM DET
DECODER ANTIBIRDIE
STEREO DRIVE
STEREO SW
FF
TRIG
VCO
PILOT DET
PHASE DET
MUTE
LEVEL DET
FM IF
S-CUREV
FM DET
AM/FM IF BUFF
COMP
TUNING DRIVE
AM/FM SW
REG
GND
VCC
AM TUNED
FM/AM SW
FM: 0V AM: 0.6V
IC302
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
ST: 12.1V MONO: 0V
+7.5V AVR
LW
MW
FM
MUTE CONTROL
TUNER MODE
SD
STEREO
Rch
GND
Lch
+12V
-12V
T. MUTE
DATA
CLK
CE
DO
TO X09 AMP UNIT
Ⓐ 4/6
SIGNAL LINE
GND LINE
+B LINE
-B LINE

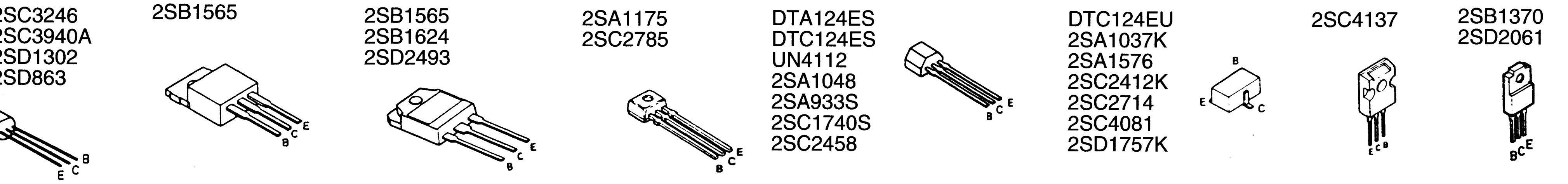
RXD-F3/F4/F41/F42 (1/6)

Q306, 313~315 D310, W513 R359, 360 R372~376	X301 L77- xxxx -05	C362	W321, 518 W519, 520 W522	L306 L39- xxxx -05
NO	1122	3P	NO	1335
	2148	2P		1328
YES	1122	3P	YES	1336
	2148	2P		1325
NO	1122	3P	NO	1335
YES			YES	1336

D301, 302, 305, 310	: 1SS133 or HSS104
D303	: RD5. 1ES(B2) or HZS5. 1N(B2) or UZ-5. 1BSB
D304	: RD8. 2ES(B2) or HZS8. 2N(B2) or UZ-8. 2BSB
D306	: RD3. 3ES(B2) or HZS3. 3N(B2) or UZ-3. 3BSB

) or
or
) or
)

or
or
) or
)
or 2SD1450(S. T)


2SC3246
2SC3940A
2SD1302
2SD863
2SB1565
2SB1565
2SB1624
2SD2493
2SA1175
2SC2785
DTA124ES
DTC124ES
UN4112
2SA1048
2SA933S
2SC1740S
2SC2458
DTC124EU
2SA1037K
2SA1576
2SC2412K
2SC2714
2SC4081
2SD1757K
2SC4137
2SB1370
2SD2061
E
C
B

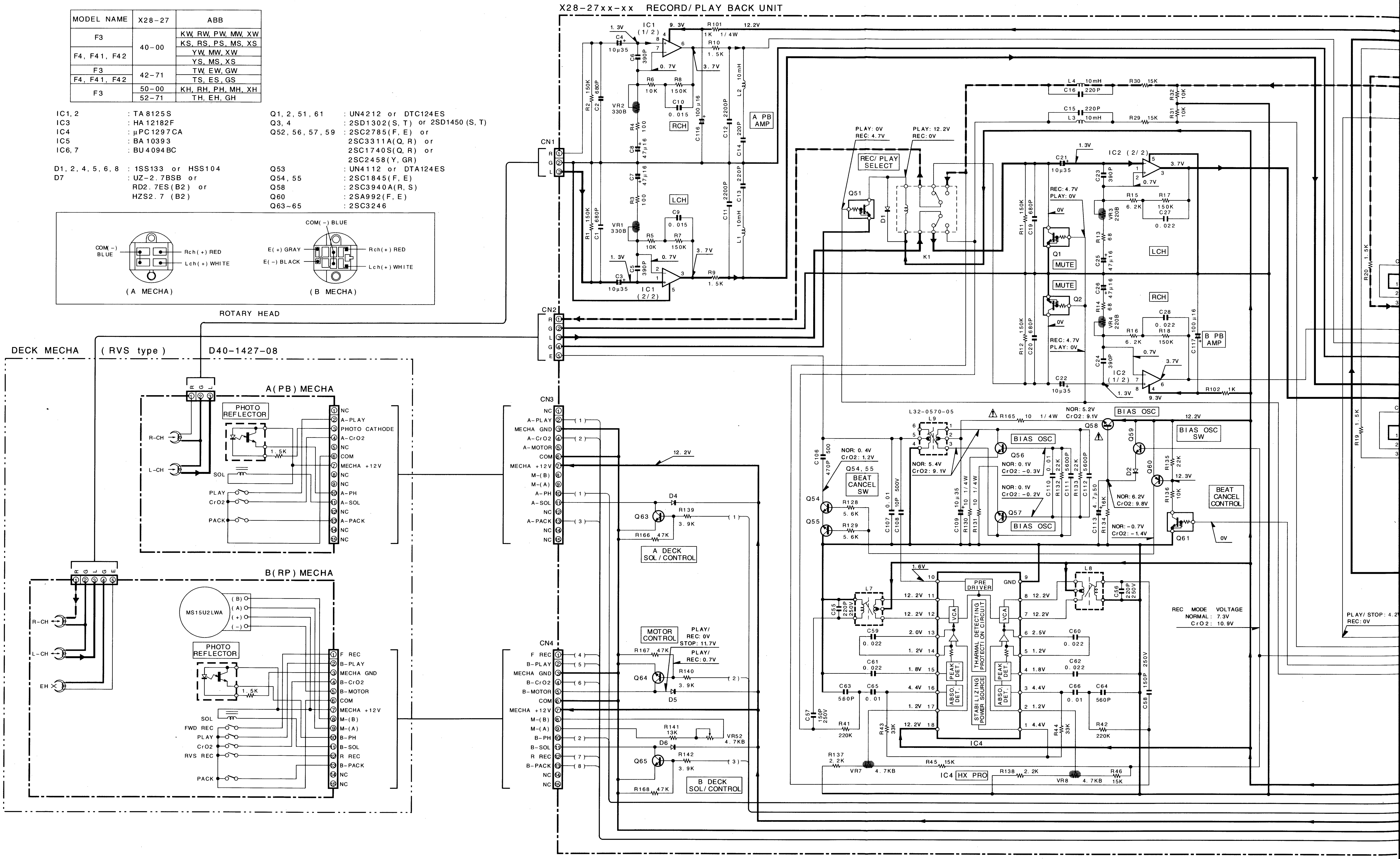
Y39-2130-11

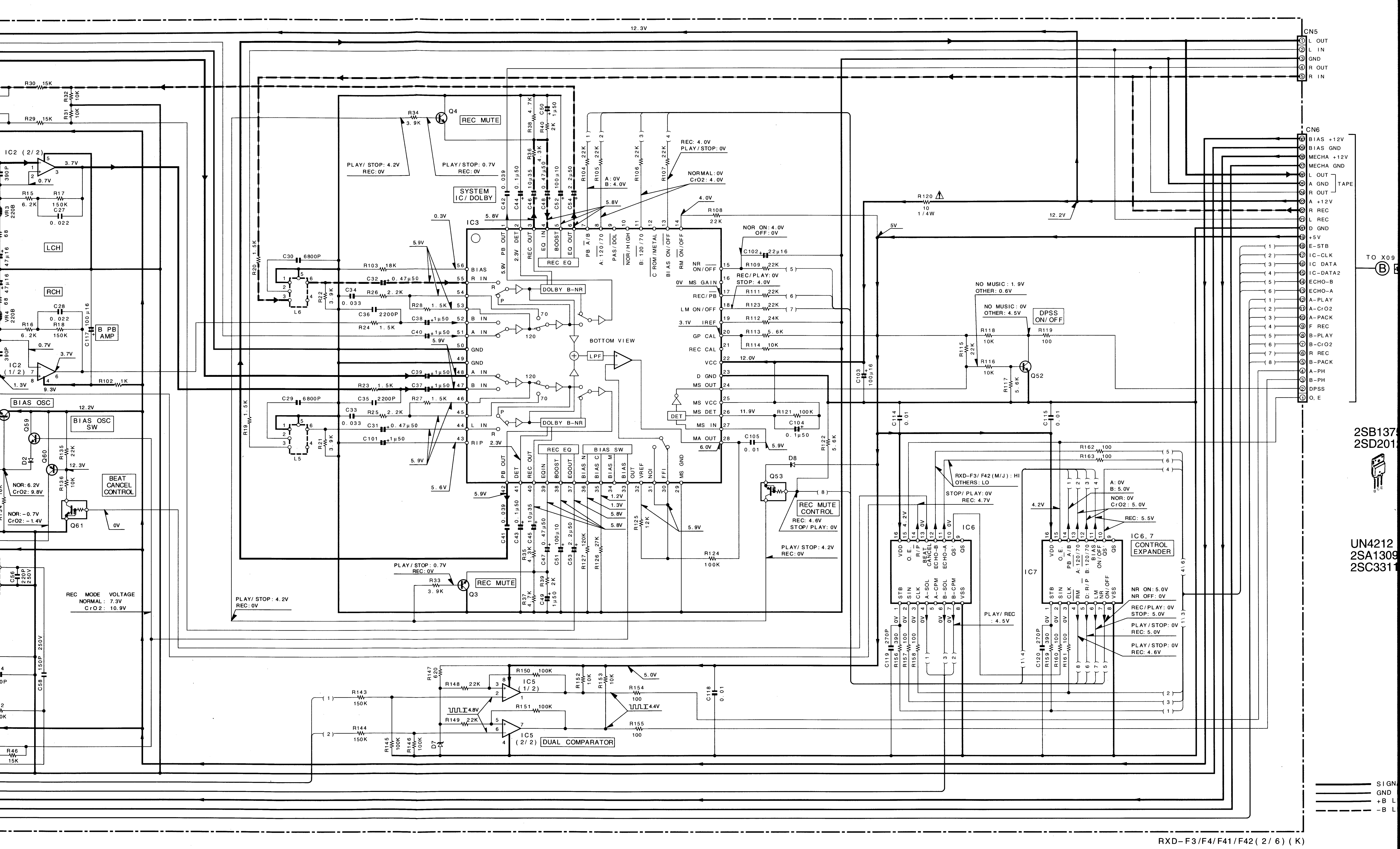
RXD-F3/F4/F41/F42

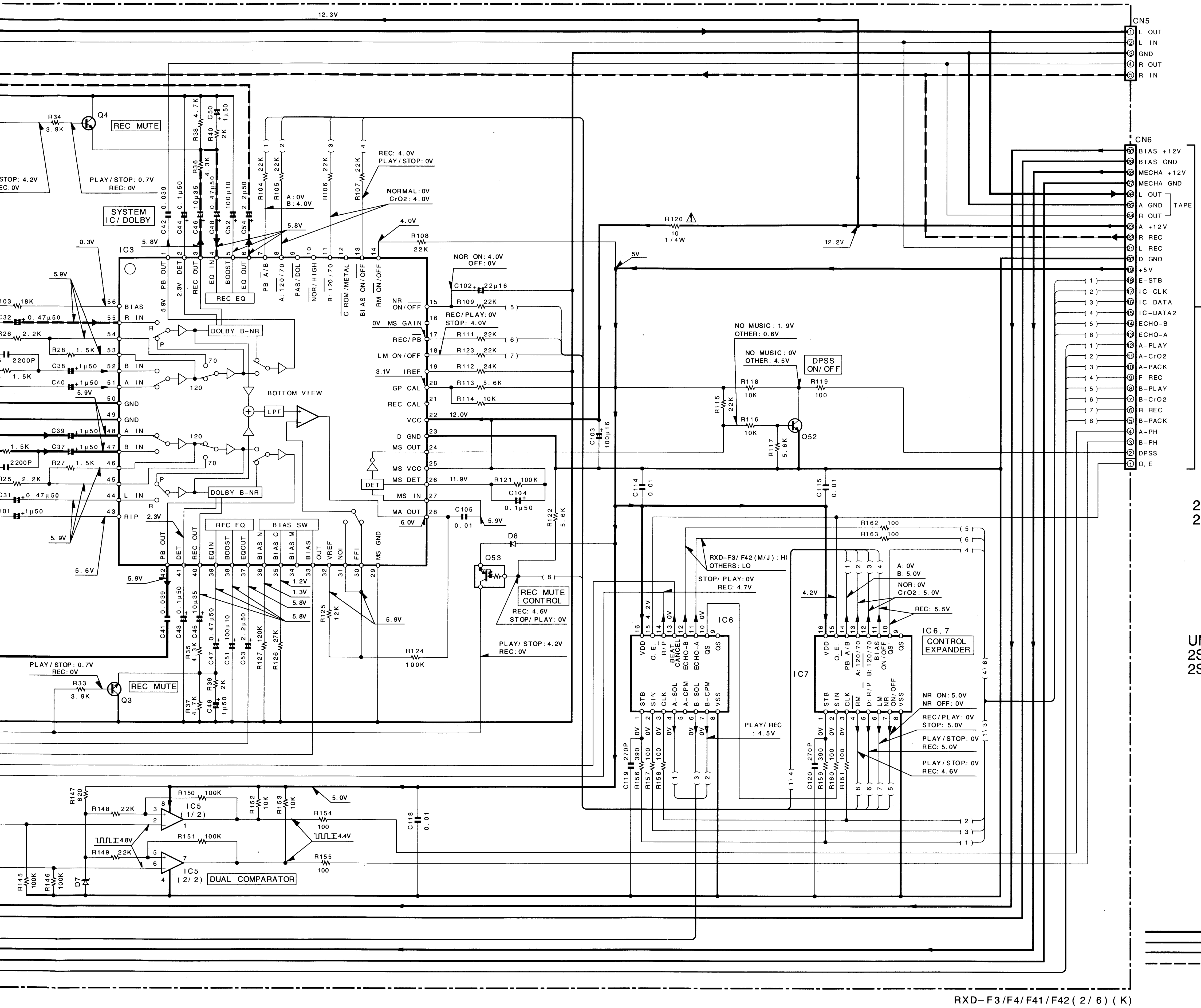
KENWOOD

MODEL NAME	X28-27	ABB
F3	40-00	KW, RW, PW, MW, XW
		KS, RS, PS, MS, XS
F4, F41, F42		YW, MW, XW
		YS, MS, XS
F3	42-71	TW, EW, GW
F4, F41, F42		TS, ES, GS
F3	50-00	KH, RH, PH, MH, XH
	52-71	TH, EH, GH

IC1, 2	TA8125S
IC3	HA12182F
IC4	µPC1297CA
IC5	BA10393
IC6, 7	BU4094BC
D1, 2, 4, 5, 6, 8	1SS133 or HSS104
D7	UZ-2.7BSB or RD2.7ES(B2) or HZS2.7 (B2)
Q1, 2, 51, 61	UN4212 or DTC124ES
Q3, 4	2SD1302(S, T) or 2SD1450 (S, T)
Q52, 56, 57, 59	2SC2785(F, E) or 2SC3311A(Q, R) or 2SC1740S(Q, R) or 2SC2458(Y, GR)
Q53	UN4112 or DTA124ES
Q54, 55	2SC1845(F, E)
Q58	2SC3940A(R, S)
Q60	2SA992(F, E)
Q63~65	2SC3246


V
W
X
Y
Z
AA
AB
AC
AD
AE
1
2
3
4
5
6
7
X28-27xx-xx RECORD/ PLAY BACK UNIT
COM(-) BLUE
Rch(+) RED
Lch(+) WHITE
E(+) GRAY
E(-) BLACK
(A MECHA)
(B MECHA)
ROTARY HEAD
DECK MECHA (RVS type) D40-1427-08
A(PB) MECHA
B(RP) MECHA
PHOTO REFLECTOR
R-CH
L-CH
EH
SOL
PLAY
CrO2
PACK
FWD REC
RVS REC
MS15U2LWA
NC
A-PLAY
PHOTO CATHODE
A-CrO2
COM
MECHA +12V
A-PH
A-SOL
A-PACK
F REC
B-PLAY
MECHA GND
B-CrO2
B-MOTOR
M-(B)
M-(A)
B-PH
B-SOL
R REC
B-PACK
A-MOTOR
CN1
CN2
CN3
CN4
IC1 (1/2)
IC1 (2/2)
IC2 (2/2)
IC2 (1/2)
RCH
LCH
A PB AMP
B PB AMP
REC/ PLAY SELECT
PLAY: 0V REC: 4.7V
PLAY: 12.2V REC: 0V
MUTE
K1
BIAS OSC
BIAS OSC SW
BEAT CANCEL SW
BEAT CANCEL CONTROL
L32-0570-05
NOR: 5.2V CrO2: 9.1V
NOR: 0.4V CrO2: 1.2V
NOR: 5.4V CrO2: 9.1V
NOR: 6.2V CrO2: 9.8V
NOR: -0.7V CrO2: -1.4V
A DECK SOL/ CONTROL
B DECK SOL/ CONTROL
MOTOR CONTROL
PLAY/ REC: 0V STOP: 11.7V
PLAY/ REC: 0.7V
PRE DRIVER
VCA
PEAK DET.
ABSO. DET.
THERMAL DETECTING PROTECTION CIRCUIT
STABILIZING POWER SOURCE
IC4
IC4 HX PRO
REC MODE VOLTAGE NORMAL: 7.3V CrO2: 10.9V
PLAY/ STOP: 4.2V REC: 0V


12.3V
CN5
L OUT
L IN
GND
R OUT
R IN
CN6
BIAS +12V
BIAS GND
MECHA +12V
MECHA GND
L OUT
A GND
R OUT
TAPE
A +12V
R REC
L REC
D GND
+5V
E-STB
IC-CLK
IC DATA
IC-DATA2
ECHO-B
ECHO-A
A-PLAY
A-CrO2
A-PACK
F REC
B-PLAY
B-CrO2
R REC
B-PACK
A-PH
B-PH
DPSS
O. E
TO X09
B
IC2 (2/2)
IC2 (1/2)
LCH
RCH
B PB AMP
BIAS OSC
BIAS OSC SW
BEAT CANCEL CONTROL
NOR: 6.2V
CrO2: 9.8V
NOR: -0.7V
CrO2: -1.4V
REC MODE VOLTAGE
NORMAL: 7.3V
CrO2: 10.9V
REC MUTE
PLAY/STOP: 4.2V
REC: 0V
PLAY/STOP: 0.7V
REC: 0V
SYSTEM IC/DOLBY
IC3
REC EQ
DOLBY B-NR
BOTTOM VIEW
LPF
BIAS SW
DET
REC: 4.0V
PLAY/STOP: 0V
NORMAL: 0V
CrO2: 4.0V
A: 0V
B: 4.0V
NOR ON: 4.0V
OFF: 0V
REC/PLAY: 0V
STOP: 4.0V
REC MUTE CONTROL
REC: 4.6V
STOP/PLAY: 0V
R120 10 1/4W
NO MUSIC: 1.9V
OTHER: 0.6V
NO MUSIC: 0V
OTHER: 4.5V
DPSS ON/OFF
Q52
Q53
D8
IC6
IC7
IC6, 7 CONTROL EXPANDER
RXD-F3/F42(M/J): HI
OTHERS: LO
STOP/PLAY: 0V
REC: 4.7V
NOR: 0V
CrO2: 5.0V
REC: 5.5V
NR ON: 5.0V
NR OFF: 0V
REC/PLAY: 0V
STOP: 5.0V
PLAY/STOP: 0V
REC: 5.0V
PLAY/STOP: 0V
REC: 4.6V
PLAY/REC: 4.5V
IC5 (1/2)
IC5 (2/2) DUAL COMPARATOR
5.0V
2SB1375
2SD2012
UN4212
2SA1309
2SC3311
SIGNAL
GND
+B L
-B L


CN5
L OUT
L IN
GND
R OUT
R IN
CN6
BIAS +12V
BIAS GND
MECHA +12V
MECHA GND
L OUT
A GND
R OUT
TAPE
A +12V
R REC
L REC
D GND
+5V
E-STB
IC-CLK
IC DATA
IC-DATA2
ECHO-B
ECHO-A
A-PLAY
A-CrO2
A-PACK
F REC
B-PLAY
B-CrO2
R REC
B-PACK
A-PH
B-PH
DPSS
O. E
TO X09 CN3
B
4/6
12.3V
REC MUTE
Q4
Q3
SYSTEM IC/ DOLBY
IC3
REC EQ
DOLBY B-NR
BOTTOM VIEW
LPF
BIAS SW
DET
R120
10 1/4W
DPSS ON/ OFF
Q52
Q53
D8
REC MUTE CONTROL
REC: 4.6V STOP/ PLAY: 0V
PLAY/ STOP: 4.2V REC: 0V
IC6
IC7
IC6, 7 CONTROL EXPANDER
RXD-F3/ F42 (M/J) : HI OTHERS: LO
STOP/ PLAY: 0V REC: 4.7V
PLAY/ REC : 4.5V
NR ON: 5.0V NR OFF: 0V
REC/ PLAY: 0V STOP: 5.0V
PLAY/ STOP: 0V REC: 5.0V
PLAY/ STOP: 0V REC: 4.6V
IC5 (1/2)
IC5 (2/2)
DUAL COMPARATOR
D7
SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-F3/F4/F41/F42 (2/6) (K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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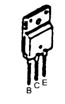
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

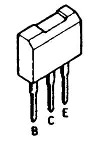
Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

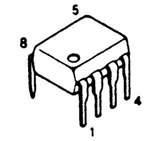
2SB1375
2SD2012



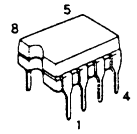
2SD1893



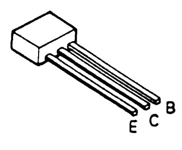
NJM2100D



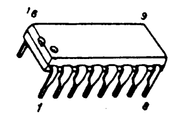
NJM4565D
NJM4565D-D



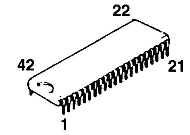
UN4212
2SA1309A
2SC3311A



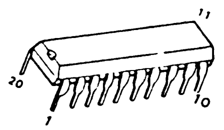
XRU4052BC



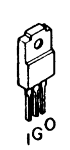
LA2785



TDA7315



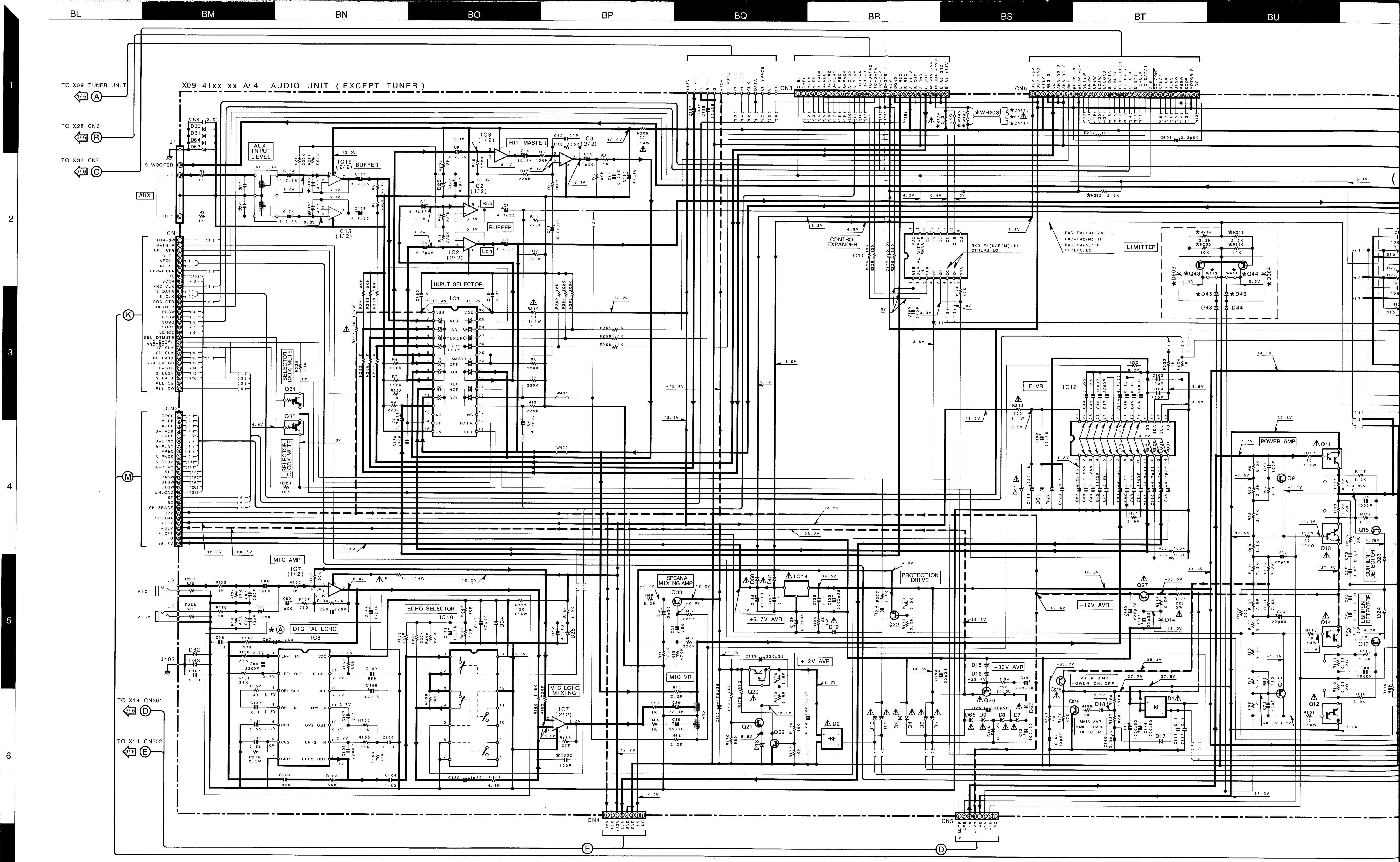
UPC7805AHF



Y39-2130-11

RXD-F3/F4/F41/F42

KENWOOD


BL
BM
BN
BO
BP
BQ
BR
BS
BT
BU
1
2
3
4
5
6
7
X09-41xx-xx A/4 AUDIO UNIT (EXCEPT TUNER)
TO X09 TUNER UNIT 1/6 A
TO X28 CN6 2/6 B
TO X32 CN7 3/6 C
TO X14 CN301 3/6 D
TO X14 CN302 3/6 E
J1
S. WOOFER
AUX
Lch
Rch
AUX INPUT LEVEL
VR1 50K
IC15 (2/2) BUFFER
IC15 (1/2)
IC3 (1/2)
HIT MASTER
IC3 (2/2)
IC2 (1/2)
Rch
BUFFER
IC2 (2/2)
Lch
INPUT SELECTOR
IC1
SELECTOR DATA MUTE
SELECTOR CLOCK MUTE
Q34
Q35
CN1
CN2
CN3
CN4
CN5
CN6
CONTROL EXPANDER
IC11
RXD-F3/F4(E/M): HI
RXD-F42(M): HI
RXD-F4(K): HI
OTHERS: LO
LIMITTER
E. VR
IC12
POWER AMP
CURRENT DETECTOR
MIC AMP
IC7 (1/2)
J2 MIC1
J3 MIC2
J102
DIGITAL ECHO
IC8
ECHO SELECTOR
IC10
MIC ECHO MIXING
IC7 (2/2)
SPEANA MIXING AMP
MIC VR
+5.7V AVR
+12V AVR
PROTECTION DRIVE
-30V AVR
-12V AVR
MAIN AMP POWER ON/OFF
MAIN AMP POWER TIMING DETECTOR
★WH203
★CN113
★F7
★CN114
IC14

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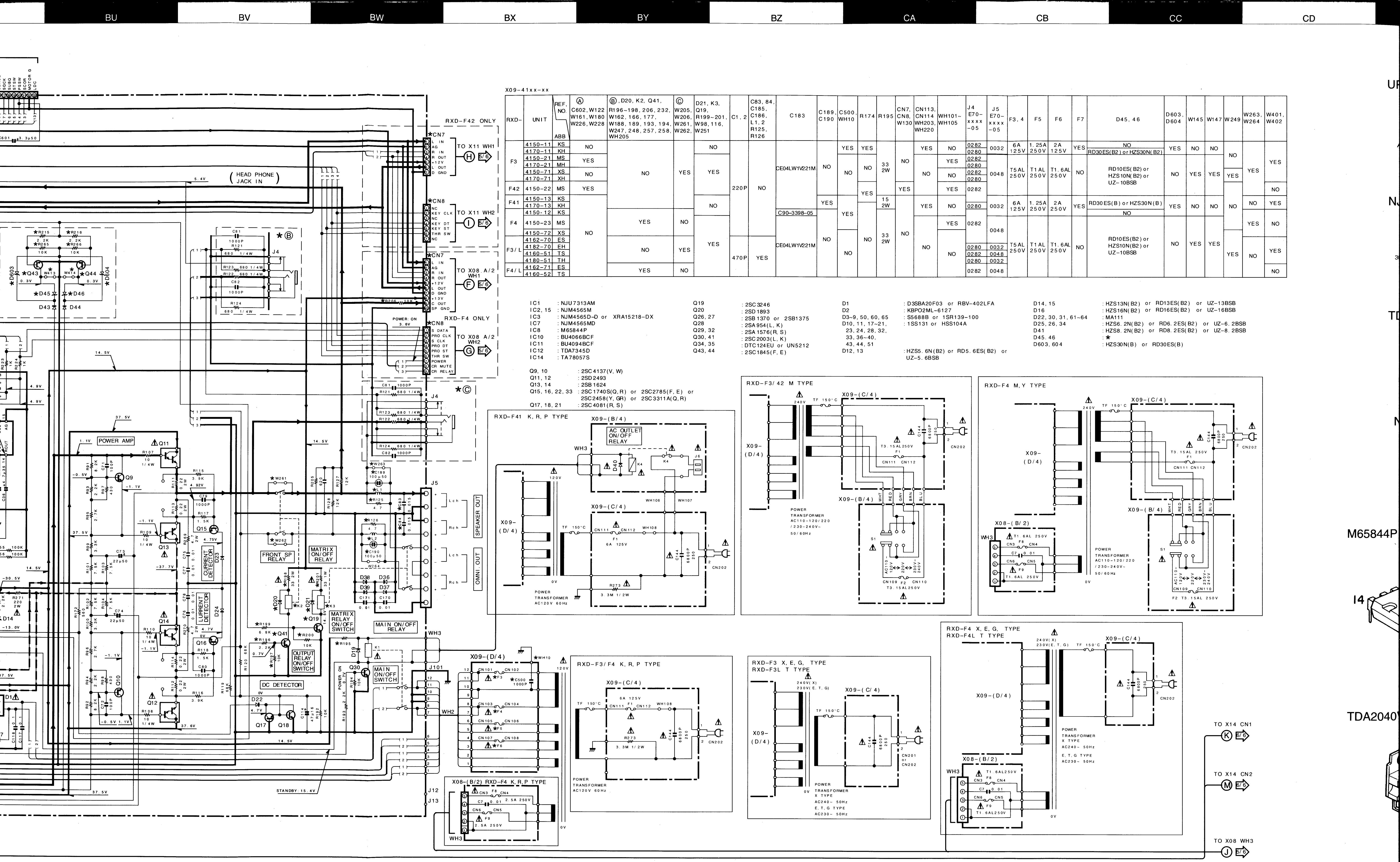
Les tensions c.c doivent être mesurées
impédance Les valeurs peuvent diffé
variations inhérentes aux appareils et
individuels


BU
BV
BW
BX
BY
BZ
CA
CB
CC
CD
RXD-F42 ONLY
★CN7
L IN
AG
R IN
R OUT
+12V
L OUT
D GND
TO X11 WH1
H 5/6
★CN8
NC
KEY CLK
KEY DT
KEY ST
THR SW
TO X11 WH2
I 5/6
+13V
C OUT
SP GND
TO X08 A/2 WH1
F 5/6
RXD-F4 ONLY
POWER: ON 3.6V
S DATA
PRO CLK
S CLK
PRO DT
PRO ST
POWER
CR MUTE
CR RELAY
TO X08 A/2 WH2
G 5/6
(HEAD PHONE JACK IN)
5.4V
14.5V
4.9V
37.5V
★Ⓑ
★Ⓒ
J4
J5
★R215
★R216
★R265
★R266
★Q43
★Q44
★D603
★D604
★D45
★D46
D43
D44
POWER AMP
Q9
Q10
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
Q30
★Q41
CURRENT DETECTOR
DC DETECTOR
FRONT SP RELAY
MATRIX ON/OFF RELAY
MATRIX RELAY ON/OFF SWITCH
OUTPUT RELAY ON/OFF SWITCH
MAIN ON/OFF RELAY
MAIN ON/OFF SWITCH
SPEAKER OUT
OMNI OUT
Lch
Rch
WH2
WH3
J101
J12
J13
STANDBY 15.4V
X08-(B/2) RXD-F4 K, R, P TYPE
X09-(D/4)
RXD-F41 K, R, P TYPE
X09-(B/4)
AC OUTLET ON/OFF RELAY
X09-(C/4)
POWER TRANSFORMER AC120V 60Hz
RXD-F3/42 M TYPE
POWER TRANSFORMER AC110-120/220/230-240V~ 50/60Hz
RXD-F4 M, Y TYPE
RXD-F3/F4 K, R, P TYPE
RXD-F3 X, E, G, TYPE
RXD-F3L T TYPE
POWER TRANSFORMER X TYPE AC240~ 50Hz E, T, G TYPE AC230~ 50Hz
RXD-F4 X, E, G, TYPE
RXD-F4L T TYPE
TF 150°C
CN202
TO X14 CN1
K 5/6
TO X14 CN2
M 5/6
TO X08 WH3
J 5/6
M65844P
TDA2040

X09-41xx-xx

RXD-	UNIT	REF. NO. / ABB	Ⓐ C602, W122 W161, W180 W226, W228	Ⓑ, D20, K2, Q41, R196~198, 206, 232, W162, 166, 177, W188, 189, 193, 194, W247, 248, 257, 258, WH205	Ⓒ W205, W206, W261, W262,	D21, K3, Q19, R199~201, W98, 116, W251	C1, 2	C83, 84, C185, C186, L1, 2 R125, R126	C183	C189, C190	C500, WH10	R174	R195
F3	4150-11	KS	NO	NO	YES	NO	220P	NO	CE04LW1V221M	NO	YES	YES	33 2W
	4170-11	KH											
	4150-21	MS	YES			YES					NO	NO	
	4170-21	MH											
	4150-71	XS	NO										
	4170-71	XH											
F42	4150-22	MS	YES									YES	
F41	4150-13	KS	NO			NO				YES	YES		15 2W
	4170-13	KH											
F4	4150-12	KS		YES	NO				C90-3398-05	NO		NO	33 2W
	4150-23	MS				YES			CE04LW1V221M				
	4150-72	XS									NO		
F3/L	4162-70	ES		NO	YES		470P	YES					
	4182-70	EH											
	4160-51	TS											
	4180-51	TH											
F4/L	4162-71	ES		YES	NO								
	4160-52	TS											

RXD-	UNIT	REF. NO. / ABB	CN7, CN8, W130	CN113, CN114 WH203, WH220	WH101~ WH105	J4 E70-xxxx -05	J5 E70-xxxx -05	F3, 4	F5	F6	F7	D45, 46	D603, D604	W145	W147	W249	W263, W264	W401, W402
F3	4150-11	KS	NO	YES	NO	0282	0032	6A 125V	1. 25A 250V	2A 125V	YES	NO	YES	NO	NO	NO	YES	YES
	4170-11	KH				0280						RD30ES(B2) or HZS30N(B2)						
	4150-21	MS		NO	YES	0282	0048	T5AL 250V	T1AL 250V	T1. 6AL 250V	NO	RD10ES(B2) or HZS10N(B2) or UZ-10BSB	NO	YES	YES			
	4170-21	MH				0280												
	4150-71	XS			NO	0282										YES		
	4170-71	XH				0280												
F42	4150-22	MS	YES		YES	0282										NO		NO
F41	4150-13	KS	NO	YES	NO		0032	6A 125V	1. 25A 250V	2A 250V	YES	RD30ES(B) or HZS30N(B)	YES	NO	NO		NO	YES
	4170-13	KH				0280												
F4	4150-12	KS				0282						NO					YES	NO
	4150-23	MS		NO	YES		0048	T5AL 250V	T1AL 250V	T1. 6AL 250V	NO	RD10ES(B2) or HZS10N(B2) or UZ-10BSB	NO	YES	YES			
	4150-72	XS			NO													
F3/L	4162-70	ES														YES	NO	YES
	4182-70	EH				0280	0032											
	4160-51	TS				0282	0048											
	4180-51	TH				0280	0032											
F4/L	4162-71	ES				0282	0048											NO
	4160-52	TS																

IC1 : NJU7313AM
IC2, 15 : NJM4565M
IC3 : NJM4565D-D or XRA15218-DX
IC7 : NJM4565MD
IC8 : M65844P
IC10 : BU4066BCF
IC11 : BU4094BCF
IC12 : TDA7345D
IC14 : TA78057S

Q9, 10 : 2SC4137(V, W)
Q11, 12 : 2SD2493
Q13, 14 : 2SB1624
Q15, 16, 22, 33 : 2SC1740S(Q, R) or 2SC2785(F, E) or 2SC2458(Y, GR) or 2SC3311A(Q, R)
Q17, 18, 21 : 2SC4081(R, S)

Q19 : 2SC3246
Q20 : 2SD1893
Q26, 27 : 2SB1370 or 2SB1375
Q28 : 2SA954(L, K)
Q29, 32 : 2SA1576(R, S)
Q30, 41 : 2SC2003(L, K)
Q34, 35 : DTC124EU or UN5212
Q43, 44 : 2SC1845(F, E)

D1 : D3SBA20F03 or RBV-402LFA
D2 : KBPO2ML-6127
D3~9, 50, 60, 65 : S5688B or 1SR139-100
D10, 11, 17~21, 23, 24, 28, 32, 33, 36~40, 43, 44, 51 : 1SS131 or HSS104A
D12, 13 : HZS5. 6N(B2) or RD5. 6ES(B2) or UZ-5. 6BSB

D14, 15 : HZS13N(B2) or RD13ES(B2) or UZ-13BSB
D16 : HZS16N(B2) or RD16ES(B2) or UZ-16BSB
D22, 30, 31, 61~64 : MA111
D25, 26, 34 : HZS6. 2N(B2) or RD6. 2ES(B2) or UZ-6. 2BSB
D41 : HZS8. 2N(B2) or RD8. 2ES(B2) or UZ-8. 2BSB
D45. 46 : ★
D603, 604 : HZS30N(B) or RD30ES(B)

RXD-F3/F4/F41/F42(4/6)(K)

meter.
vidual

Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

X09-41xx-xx

RXD-	UNIT	REF. NO. / ABB	Ⓐ C602, W122 W161, W180 W226, W228	Ⓑ, D20, K2, Q41, R196~198, 206, 232, W162, 166, 177, W188, 189, 193, 194, W247, 248, 257, 258, WH205	Ⓒ W205, W206, W261, W262,	D21, K3, Q19, R199~201, W98, 116, W251	C1, 2	C83, 84, C185, C186, L1, 2 R125, R126	C183	C189, C190	C500, WH10	R174	R195	CN7, CN8, W130	CN113, CN114 WH203, WH220	WH101~ WH105	J4 E70-xxxx-05	J5 E70-xxxx-05	F3, 4	F5	F6	F7	D45, 46	D603, D604	W145	W147	W249	W263, W264	W401, W402
F3	4150-11	KS	NO	NO	YES	NO	220P	NO	CE04LW1V221M	NO	YES	YES	33 2W	NO	YES	NO	0282	0032	6A 125V	1.25A 250V	2A 125V	YES	NO	YES	NO	NO	NO	YES	YES
	4170-11	KH															0280						RD30ES(B2) or HZS30N(B2)						
	4150-21	MS	YES			YES					NO	NO			NO	YES	0282	0048	T5AL 250V	T1AL 250V	T1.6AL 250V	NO	RD10ES(B2) or HZS10N(B2) or UZ-10BSB	NO	YES	YES			
	4170-21	MH															0280												
	4150-71	XS	NO													NO	0282										YES		
	4170-71	XH															0280												
F42	4150-22	MS	YES									YES		YES		YES	0282										NO		NO
F41	4150-13	KS	NO			NO				YES	YES		15 2W	NO	YES	NO		0032	6A 125V	1.25A 250V	2A 250V	YES	RD30ES(B) or HZS30N(B)	YES	NO	NO		NO	YES
	4170-13	KH										NO					0280												
F4	4150-12	KS		YES	NO				C90-3398-05	NO			33 2W				0282						NO					YES	NO
	4150-23	MS				YES			CE04LW1V221M						NO	YES		0048	T5AL 250V	T1AL 250V	T1.6AL 250V	NO	RD10ES(B2) or HZS10N(B2) or UZ-10BSB	NO	YES	YES			
	4150-72	XS									NO					NO											YES		
F3/L	4162-70	ES		NO	YES		470P	YES																				NO	YES
	4182-70	EH															0280	0032											
	4160-51	TS															0282	0048											
	4180-51	TH															0280	0032											
F4/L	4162-71	ES		YES	NO												0282	0048											NO
	4160-52	TS																											

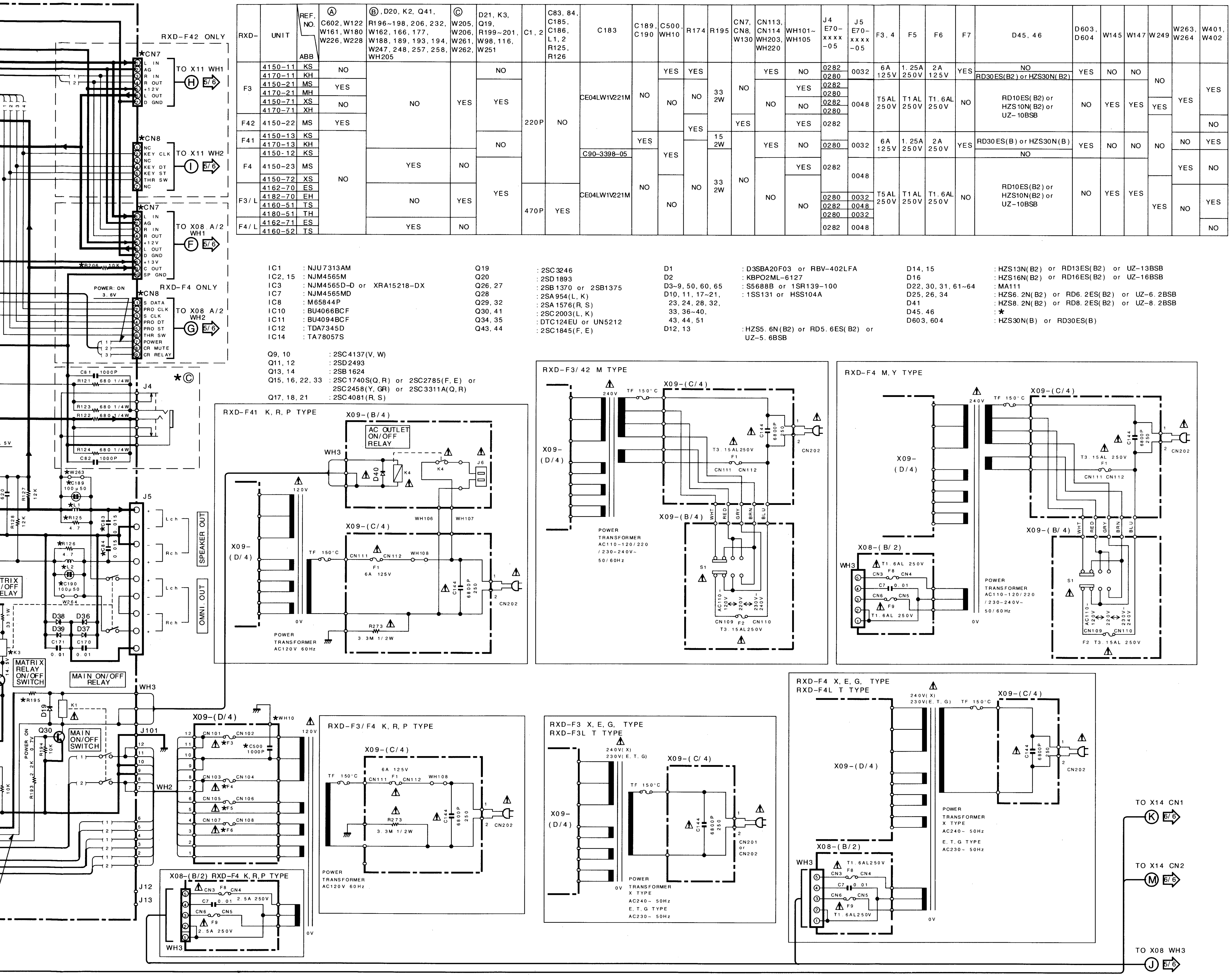
IC1 : NJU7313AM
IC2, 15 : NJM4565M
IC3 : NJM4565D-D or XRA15218-DX
IC7 : NJM4565MD
IC8 : M65844P
IC10 : BU4066BCF
IC11 : BU4094BCF
IC12 : TDA7345D
IC14 : TA78057S

Q9, 10 : 2SC4137(V, W)
Q11, 12 : 2SD2493
Q13, 14 : 2SB1624
Q15, 16, 22, 33 : 2SC1740S(Q, R) or 2SC2785(F, E) or
2SC2458(Y, GR) or 2SC3311A(Q, R)
Q17, 18, 21 : 2SC4081(R, S)

Q19 : 2SC3246
Q20 : 2SD1893
Q26, 27 : 2SB1370 or 2SB1375
Q28 : 2SA954(L, K)
Q29, 32 : 2SA1576(R, S)
Q30, 41 : 2SC2003(L, K)
Q34, 35 : DTC124EU or UN5212
Q43, 44 : 2SC1845(F, E)

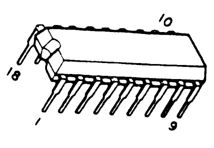
D1 : D3SBA20F03 or RBV-402LFA
D2 : KBPO2ML-6127
D3~9, 50, 60, 65 : S5688B or 1SR139-100
D10, 11, 17~21, 23, 24, 28, 32, 33, 36~40, 43, 44, 51 : 1SS131 or HSS104A
D12, 13 : HZS5. 6N(B2) or RD5. 6ES(B2) or UZ-5. 6BSB

D14, 15 : HZS13N(B2) or RD13ES(B2) or UZ-13BSB
D16 : HZS16N(B2) or RD16ES(B2) or UZ-16BSB
D22, 30, 31, 61~64 : MA111
D25, 26, 34 : HZS6. 2N(B2) or RD6. 2ES(B2) or UZ-6. 2BSB
D41 : HZS8. 2N(B2) or RD8. 2ES(B2) or UZ-8. 2BSB
D45. 46 : ★
D603, 604 : HZS30N(B) or RD30ES(B)

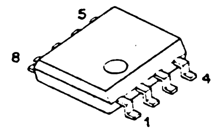

RXD-F42 ONLY
CN7
L IN
AG
R IN
R OUT
+12V
L OUT
D GND
TO X11 WH1
H
5/6
CN8
NC
KEY CLK
NC
KEY DT
KEY ST
THR SW
NC
TO X11 WH2
I
5/6
CN7
TO X08 A/2 WH1
F
5/6
CN8
S DATA
PRO CLK
S CLK
PRO DT
PRO ST
THR SW
POWER
CR MUTE
CR RELAY
TO X08 A/2 WH2
G
5/6
RXD-F4 ONLY
POWER: ON 3.6V
R206 10K
C81 1000P
R121 680 1/4W
R123 680 1/4W
R122 680 1/4W
R124 680 1/4W
C82 1000P
J4
★©
W263
C189 100µ50
L1
R125 4.7
C83 0.015
R126 4.7
C84 0.015
L2
C190 100µ50
W264
J5
Lch
Rch
SPEAKER OUT
OMNI OUT
D38
D36
D39
D37
C171 0.01
C170 0.01
MATRIX RELAY ON/OFF SWITCH
MAIN ON/OFF RELAY
WH3
R195
D19
K1
MAIN ON/OFF SWITCH
Q30
POWER ON
J101
WH2
J12
J13
X09-(D/4)
WH10
CN101
CN102
F3
C500 1000P
CN103
CN104
F4
CN105
CN106
F5
CN107
CN108
F6
120V
0V
X08-(B/2) RXD-F4 K,R,P TYPE
CN3
F8
CN4
C7 0.01
2.5A 250V
CN6
CN5
F9
2.5A 250V
WH3
RXD-F41 K, R, P TYPE
X09-(B/4)
AC OUTLET ON/OFF RELAY
WH3
D40
K4
J6
WH106
WH107
X09-(C/4)
X09-(D/4)
TF 150°C
CN111
CN112
WH108
F1
6A 125V
C144 6800P 250
CN202
R273
3.3M 1/2W
POWER TRANSFORMER AC120V 60Hz
RXD-F3/42 M TYPE
240V
TF 150°C
X09-(C/4)
X09-(D/4)
T3.15AL250V
F1
CN111
CN112
C144 6800P 250
CN202
POWER TRANSFORMER AC110-120/220 /230-240V- 50/60Hz
X09-(B/4)
WHT
RED
GRY
BRN
BLU
S1
AC110-120V
220V
230V-240V
CN109
F2
CN110
T3.15AL250V
RXD-F4 M, Y TYPE
240V
TF 150°C
X09-(C/4)
X09-(D/4)
T3.15AL 250V
F1
CN111
CN112
C144 6800P 250
CN202
X08-(B/2)
WH3
T1.6AL 250V
CN3
F8
CN4
C7 0.01
CN6
CN5
F9
T1.6AL 250V
POWER TRANSFORMER AC110-120/220 /230-240V- 50/60Hz
X09-(B/4)
S1
CN109
CN110
F2
T3.15AL 250V
RXD-F3/F4 K, R, P TYPE
X09-(C/4)
6A 125V
TF 150°C
CN111
F1
CN112
WH108
C144 6800P 250
R273
3.3M 1/2W
CN202
POWER TRANSFORMER AC120V 60Hz
RXD-F3 X, E, G, TYPE
RXD-F3L T TYPE
240V(X)
230V(E, T, G)
X09-(C/4)
TF 150°C
X09-(D/4)
C144 6800P 250
CN201 or CN202
0V
POWER TRANSFORMER X TYPE AC240- 50Hz E, T, G TYPE AC230- 50Hz
RXD-F4 X, E, G, TYPE
RXD-F4L T TYPE
240V(X)
230V(E, T, G)
TF 150°C
X09-(C/4)
X09-(D/4)
C144 6800P 250
CN202
POWER TRANSFORMER X TYPE AC240- 50Hz E, T, G TYPE AC230- 50Hz
X08-(B/2)
WH3
T1.6AL250V
CN3
F8
CN4
C7 0.01
CN6
CN5
F9
T1.6AL250V
0V
TO X14 CN1
K
5/6
TO X14 CN2
M
5/6
TO X08 WH3
J
5/6

RXD-F3/F4/F41/F42(4/6)(K)

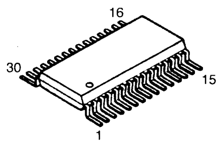
UPC1297CA



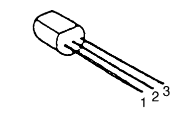
NJM4565M
NJM4565MD



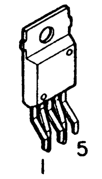
NJU7313AM



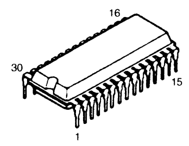
M5237L



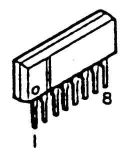
TDA2050V



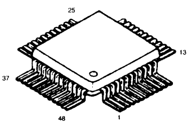
LA1836



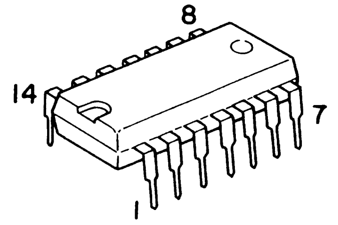
NJM4565L-D



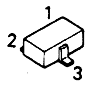
CXA1782BQ



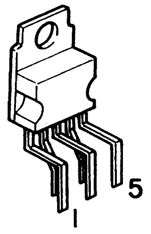
M65844P



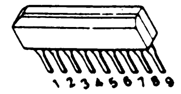
UN5212



TDA2040V



TA8125S
TA8409S



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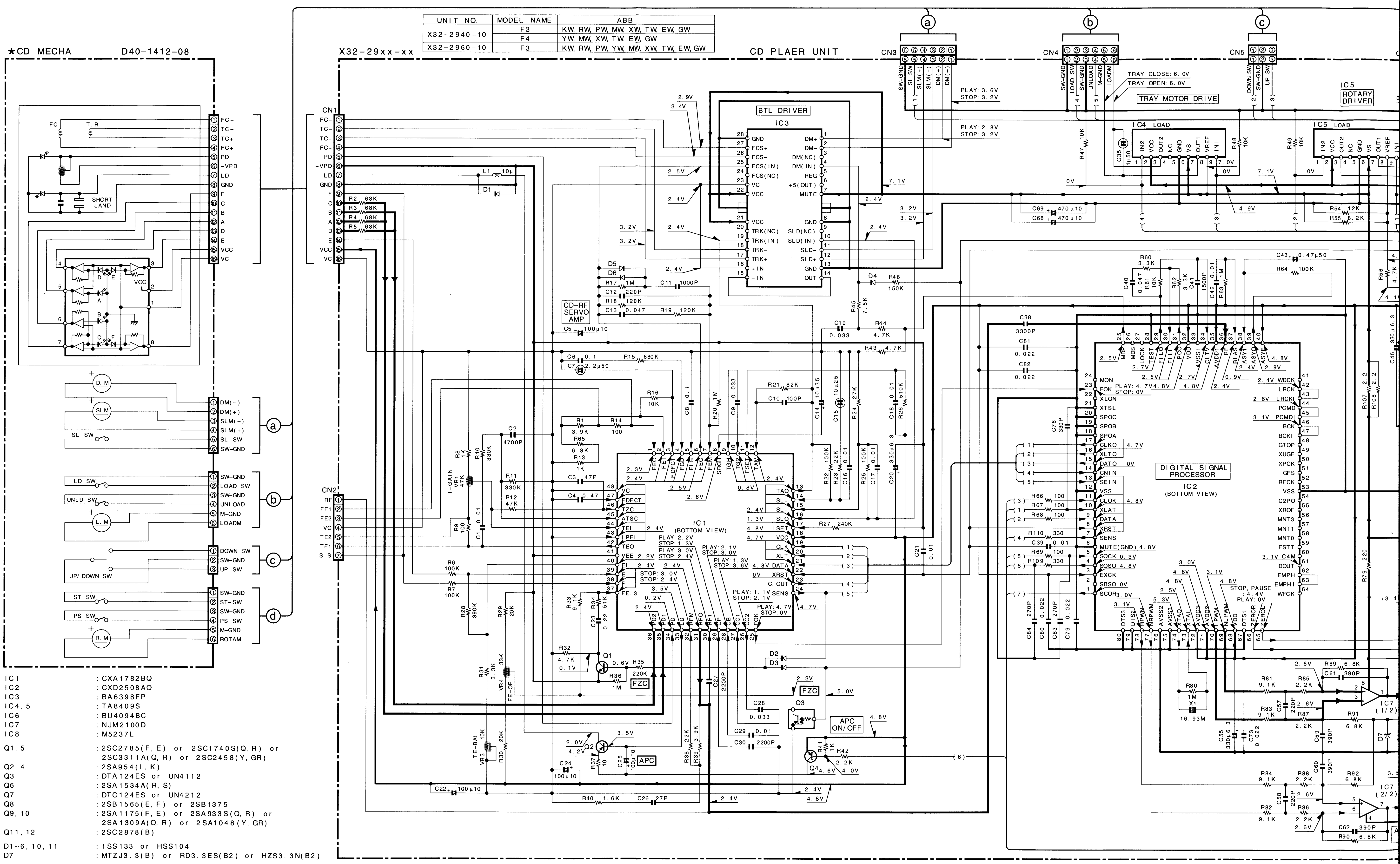
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

Y39-2130-11

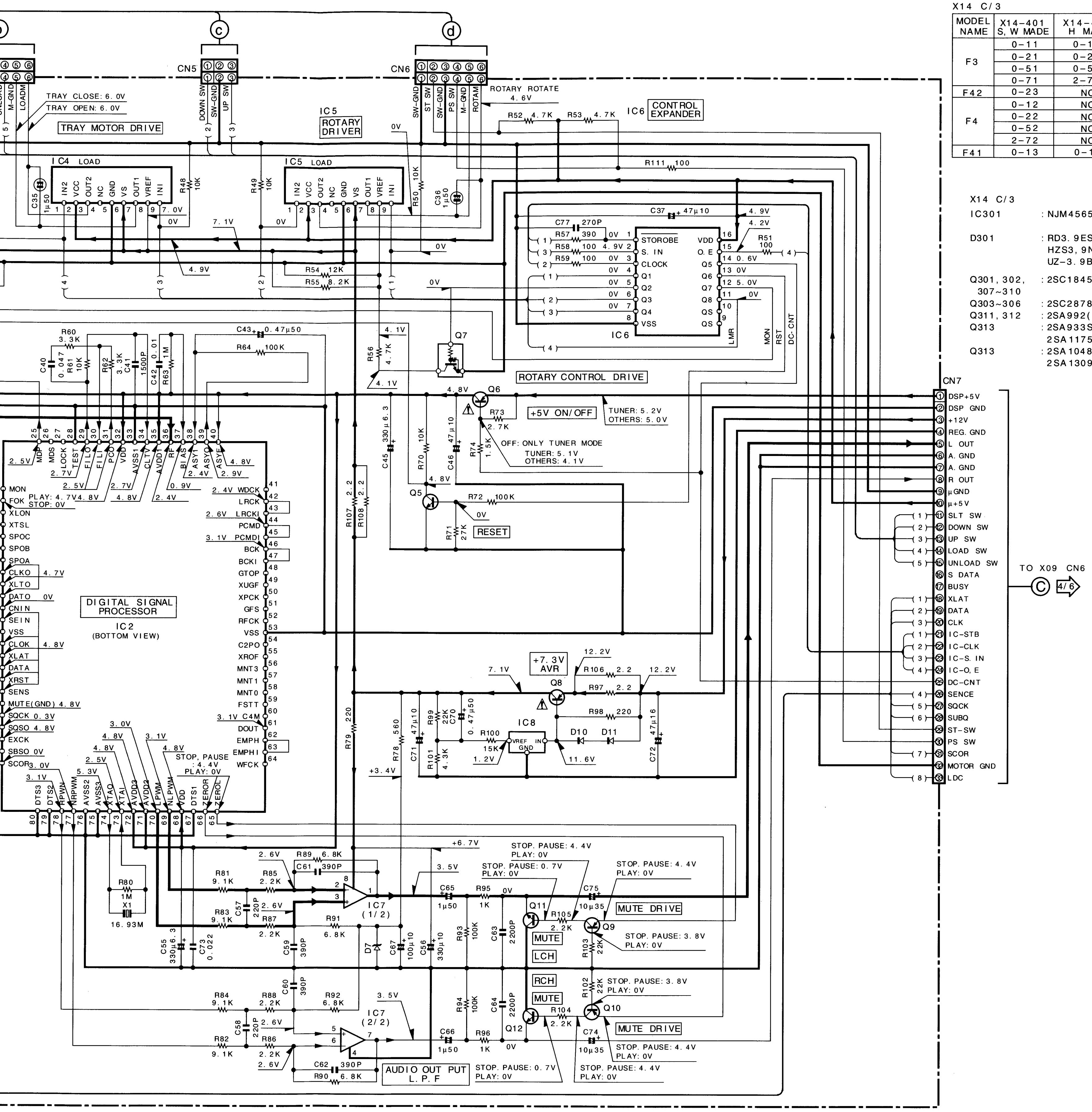
RXD-F3/F4/F41/F42

KENWOOD

UNIT NO.	MODEL NAME	ABB
X32-2940-10	F3	KW, RW, PW, MW, XW, TW, EW, GW
	F4	YW, MW, XW, TW, EW, GW
X32-2960-10	F3	KW, RW, PW, YW, MW, XW, TW, EW, GW


AQ
AR
AS
AT
AU
AV
AW
AX
AY
AZ
1
2
3
4
5
6
7
*CD MECHA D40-1412-08
X32-29xx-xx
CD PLAER UNIT
CN1
CN2
CN3
CN4
CN5
BTL DRIVER
IC3
CD-RF SERVO AMP
IC1 (BOTTOM VIEW)
DIGITAL SIGNAL PROCESSOR
IC2 (BOTTOM VIEW)
TRAY MOTOR DRIVE
IC4 LOAD
IC5 LOAD
IC5 ROTARY DRIVER
IC7 (1/2)
IC7 (2/2)
FZC
APC
APC ON/OFF
T-GAIN
TE-BAL
FE-OF
SHORT LAND
D. M
SLM
L. M
R. M
LD SW
UNLD SW
SL SW
UP/DOWN SW
ST SW
PS SW
TRAY CLOSE: 6.0V
TRAY OPEN: 6.0V
PLAY: 3.6V
STOP: 3.2V
PLAY: 2.8V
STOP: 3.2V
X1 16.93M
a
b
c
d

IC1	: CXA1782BQ
IC2	: CXD2508AQ
IC3	: BA6398FP
IC4, 5	: TA8409S
IC6	: BU4094BC
IC7	: NJM2100D
IC8	: M5237L
Q1, 5	: 2SC2785(F, E) or 2SC1740S(Q, R) or 2SC3311A(Q, R) or 2SC2458(Y, GR)
Q2, 4	: 2SA954(L, K)
Q3	: DTA124ES or UN4112
Q6	: 2SA1534A(R, S)
Q7	: DTC124ES or UN4212
Q8	: 2SB1565(E, F) or 2SB1375
Q9, 10	: 2SA1175(F, E) or 2SA933S(Q, R) or 2SA1309A(Q, R) or 2SA1048(Y, GR)
Q11, 12	: 2SC2878(B)
D1~6, 10, 11	: 1SS133 or HSS104
D7	: MTZJ3.3(B) or RD3.3ES(B2) or HZS3.3N(B2)


CN5
CN6
TRAY CLOSE: 6.0V
TRAY OPEN: 6.0V
TRAY MOTOR DRIVE
IC4 LOAD
IC5 LOAD
IC5 ROTARY DRIVER
IC6 CONTROL EXPANDER
ROTARY ROTATE 4.6V
ROTARY CONTROL DRIVE
+5V ON/OFF
TUNER: 5.2V OTHERS: 5.0V
OFF: ONLY TUNER MODE
TUNER: 5.1V OTHERS: 4.1V
RESET
DIGITAL SIGNAL PROCESSOR
IC2 (BOTTOM VIEW)
+7.3V AVR
IC8
IC7 (1/2)
IC7 (2/2)
MUTE DRIVE
MUTE
LCH
RCH
AUDIO OUT PUT L.P.F
STOP, PAUSE: 4.4V PLAY: 0V
STOP. PAUSE: 0.7V PLAY: 0V
STOP. PAUSE: 3.8V PLAY: 0V
X1 16.93M
CN7
DSP+5V
DSP GND
+12V
REG. GND
L OUT
A. GND
A. GND
R OUT
μGND
μ+5V
SLT SW
DOWN SW
UP SW
LOAD SW
UNLOAD SW
S DATA
BUSY
XLAT
DATA
CLK
IC-STB
IC-CLK
IC-S. IN
IC-O, E
DC-CNT
SENCE
SQCK
SUBQ
ST-SW
PS SW
SCOR
MOTOR GND
LDC
TO X09 CN6
C 4/6

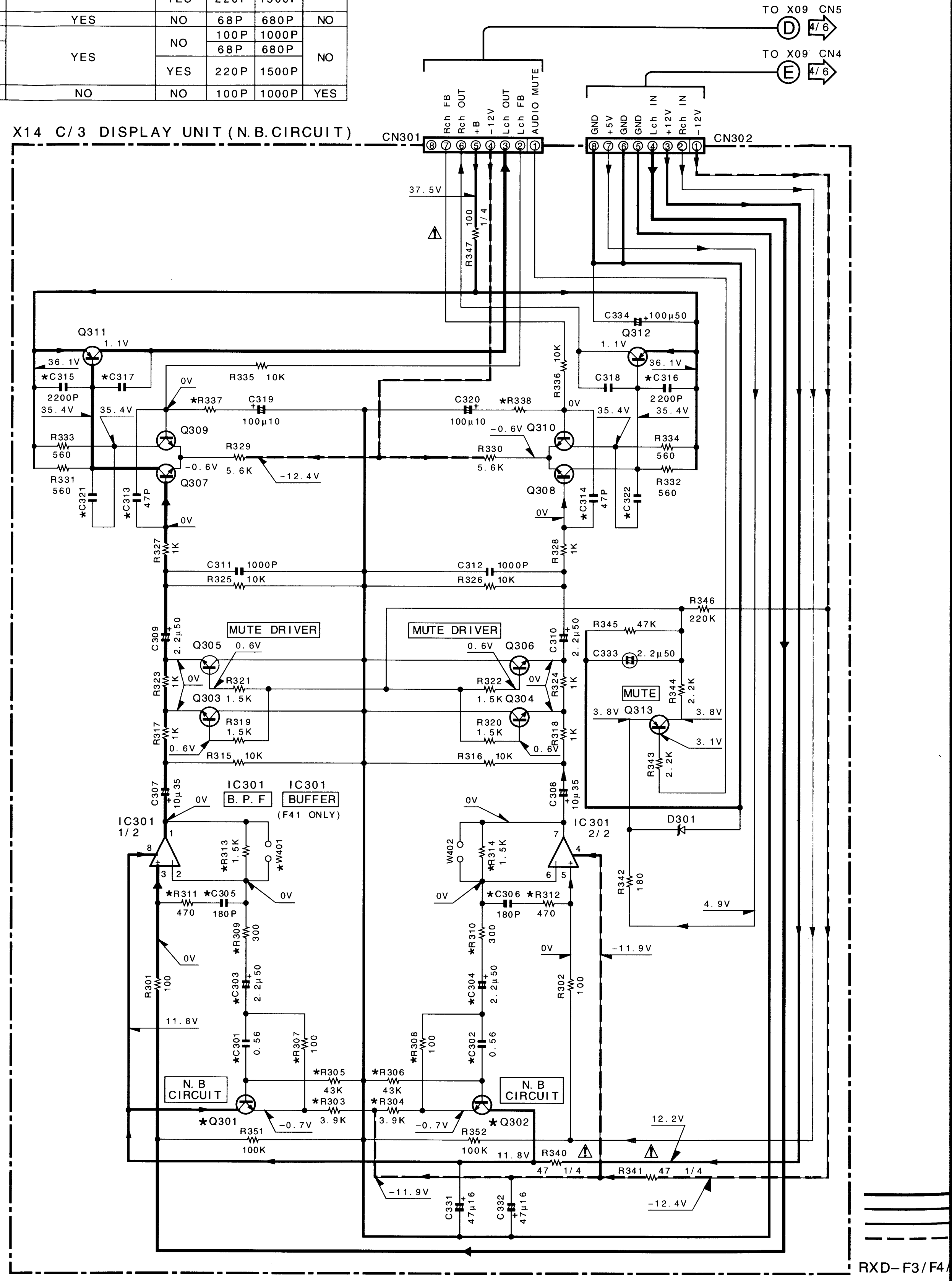
X14 C/3

MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	R337, R338	R303~314, C301~306, Q301, 302	C313, ~316	C317, C318	C321, C322	W401, W402
F3	0-11	0-11	K, R, P	91	YES	NO	100P	1000P	NO
	0-21	0-21	M	100			68P	680P	
	0-51	0-51	T			YES	220P	1500P	
	0-71	2-71	X, E, G						
F42	0-23	NO	M	100	YES	NO	68P	680P	NO
F4	0-12	NO	K, R, P	91	YES	NO	100P	1000P	NO
	0-22	NO	Y, M	100			68P	680P	
	0-52	NO	T			YES	220P	1500P	
	2-72	NO	E, G, X						
F41	0-13	0-13	K, R, P	91	NO	NO	100P	1000P	YES

X14 C/3

IC301	: NJM4565D-D
D301	: RD3.9ES(B2) or HZS3,9N(B2) or UZ-3.9BSB(F4, F42 ONLY)
Q301, 302, 307~310	: 2SC1845(F, E)
Q303~306	: 2SC2878(B)
Q311, 312	: 2SA992(F, E)
Q313	: 2SA933S(Q, R) or 2SA1175(F, E)
Q313	: 2SA1048(Y, GR) or 2SA1309A(Q, R)

X14 C/3 DISPLAY UNIT (N.B.CIRCUIT)

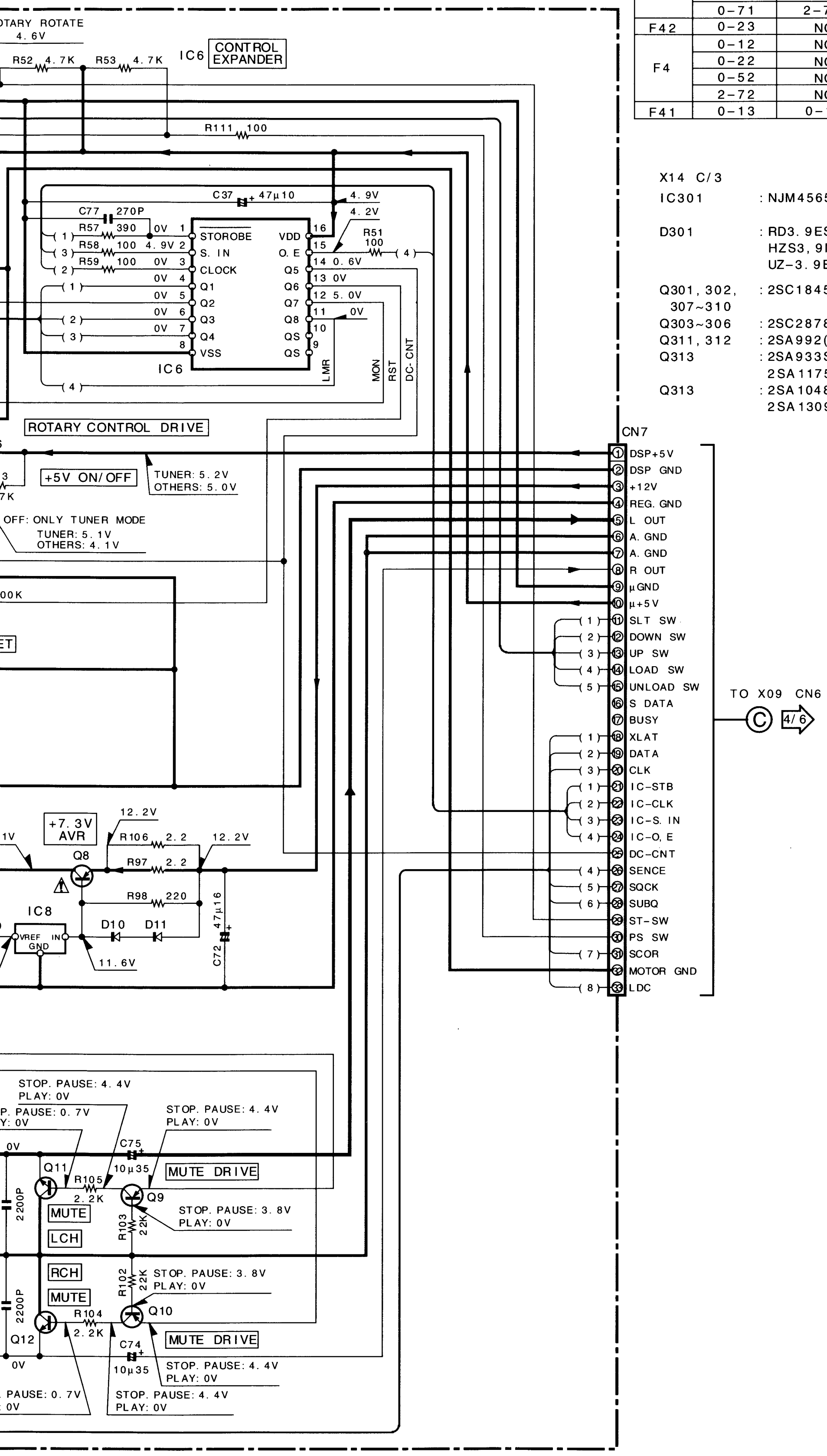

TO X09 CN5
D 4/6
TO X09 CN4
E 4/6
CN301
Rch FB
Rch OUT
+B
-12V
Lch OUT
Lch FB
AUDIO MUTE
CN302
GND
+5V
GND
GND
Lch IN
+12V
Rch IN
-12V
MUTE DRIVER
MUTE
IC301 B.P.F
IC301 BUFFER (F41 ONLY)
IC301 1/2
IC301 2/2
N.B CIRCUIT
Q301
Q302
Q303
Q304
Q305
Q306
Q307
Q308
Q309
Q310
Q311
Q312
Q313
D301

X14 C/3

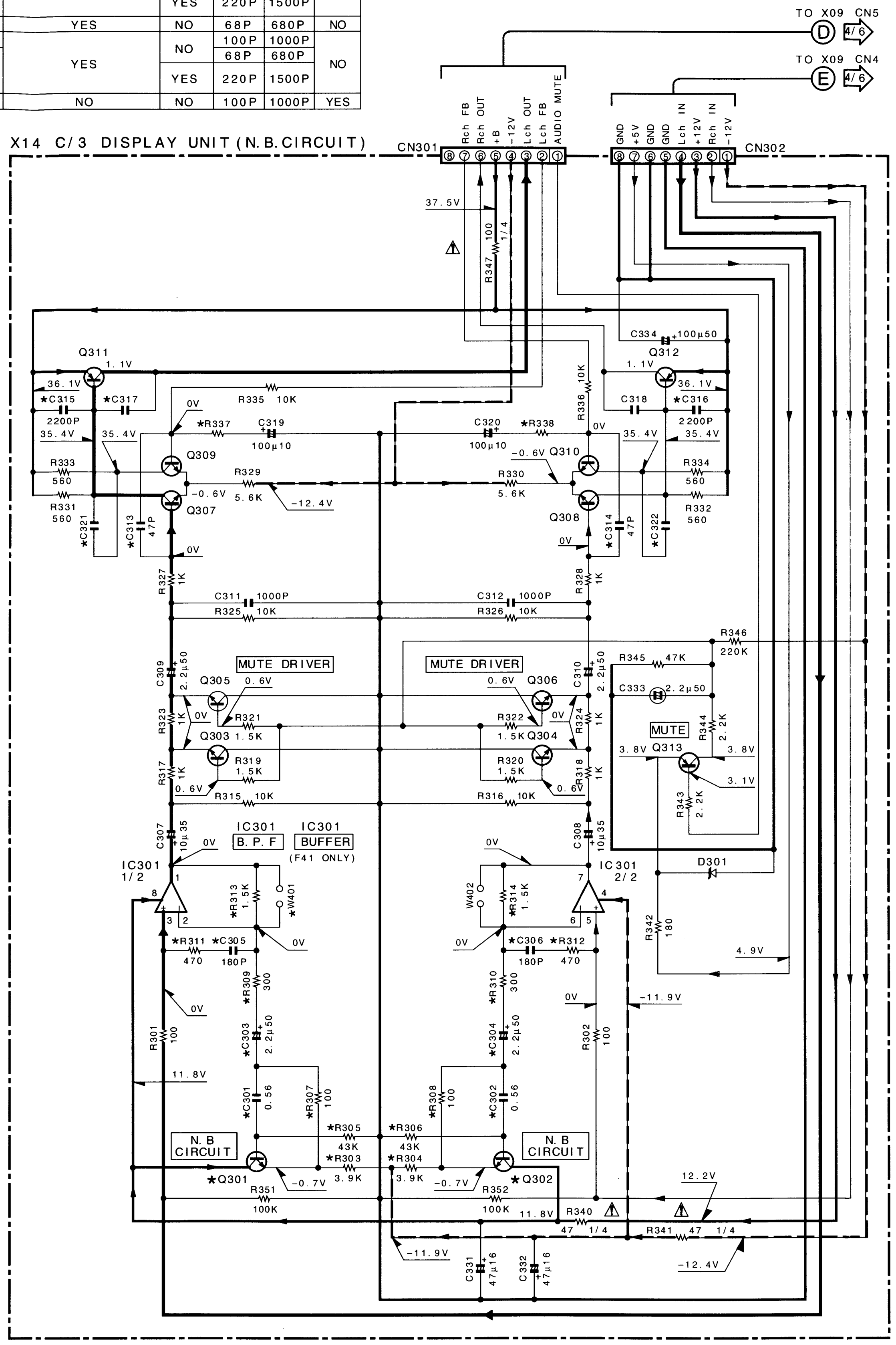
MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	R337, R338	R303~314, C301~306, Q301, 302	C313, ~316	C317, C318	C321, C322	W401, W402
F3	0-11	0-11	K, R, P	91	YES	NO	100P	1000P	NO
	0-21	0-21	M	100			68P	680P	
	0-51	0-51	T			YES	220P	1500P	
	0-71	2-71	X, E, G						
F42	0-23	NO	M	100	YES	NO	68P	680P	NO
F4	0-12	NO	K, R, P	91	YES	NO	100P	1000P	NO
	0-22	NO	Y, M	100			68P	680P	
	0-52	NO	T			YES	220P	1500P	
	2-72	NO	E, G, X						
F41	0-13	0-13	K, R, P	91	NO	NO	100P	1000P	YES

X14 C/3

IC301	: NJM4565D-D
D301	: RD3. 9ES(B2) or HZS3, 9N(B2) or UZ-3. 9BSB(F4, F42 ONLY)
Q301, 302, 307~310	: 2SC1845(F, E)
Q303~306	: 2SC2878(B)
Q311, 312	: 2SA992(F, E)
Q313	: 2SA933S(Q, R) or 2SA1175(F, E)
Q313	: 2SA1048(Y, GR) or 2SA1309A(Q, R)



OTARY ROTATE
4. 6V
R52 4. 7K
R53 4. 7K
IC6
CONTROL EXPANDER
R111 100
C37 47μ10
C77 270P
R57 390
R58 100
R59 100
STOROBE
S. IN
CLOCK
Q1
Q2
Q3
Q4
VSS
VDD
O. E
Q5
Q6
Q7
Q8
QS
QS
IC6
R51 100
4. 9V
4. 2V
0. 6V
0V
5. 0V
LMR
MON
RST
DC-CNT
ROTARY CONTROL DRIVE
+5V ON/OFF
TUNER: 5. 2V
OTHERS: 5. 0V
OFF: ONLY TUNER MODE
TUNER: 5. 1V
OTHERS: 4. 1V
CN7
DSP+5V
DSP GND
+12V
REG. GND
L OUT
A. GND
A. GND
R OUT
μGND
μ+5V
SLT SW
DOWN SW
UP SW
LOAD SW
UNLOAD SW
S DATA
BUSY
XLAT
DATA
CLK
IC-STB
IC-CLK
IC-S. IN
IC-O. E
DC-CNT
SENCE
SQCK
SUBQ
ST-SW
PS SW
SCOR
MOTOR GND
LDC
TO X09 CN6
C
4/6
+7. 3V AVR
Q8
12. 2V
R106 2. 2
R97 2. 2
R98 220
12. 2V
IC8
D10
D11
11. 6V
C72 47μ16
STOP. PAUSE: 4. 4V
PLAY: 0V
P. PAUSE: 0. 7V
Y: 0V
C75 10μ35
Q11
R105 2. 2K
Q9
MUTE DRIVE
STOP. PAUSE: 3. 8V
PLAY: 0V
MUTE
LCH
RCH
MUTE
R103 22K
R102 22K
R104 2. 2K
Q10
Q12
C74 10μ35
MUTE DRIVE
STOP. PAUSE: 4. 4V
PLAY: 0V
PAUSE: 0. 7V
0V
STOP. PAUSE: 4. 4V
PLAY: 0V



X14 C/3 DISPLAY UNIT (N.B.CIRCUIT)
TO X09 CN5
D
4/6
TO X09 CN4
E
4/6
CN301
Rch FB
Rch OUT
+B
-12V
Lch OUT
Lch FB
AUDIO MUTE
CN302
GND
+5V
GND
GND
Lch IN
+12V
Rch IN
-12V
37. 5V
R347 100 1/4
Q311
1. 1V
36. 1V
★C315 2200P
★C317
35. 4V
R333 560
R331 560
★C321
★C313 47P
Q309
Q307
0V
★R337
C319 100μ10
R335 10K
R329 5. 6K
-0. 6V
-12. 4V
C320 100μ10
★R338
R336 10K
R330 5. 6K
-0. 6V Q310
Q308
C334 100μ50
Q312
1. 1V
36. 1V
C318
★C316 2200P
35. 4V
R334 560
R332 560
★C314 47P
★C322
R327 1K
R328 1K
C311 1000P
R325 10K
C312 1000P
R326 10K
C309 2. 2μ50
MUTE DRIVER
Q305
0. 6V
R321
R323 1K
Q303 1. 5K
R319 1. 5K
R317 1K
0. 6V
R315 10K
MUTE DRIVER
0. 6V Q306
R322
1. 5K Q304
R320 1. 5K
R318 1K
0. 6V
R316 10K
C310 2. 2μ50
R324 1K
R346 220K
R345 47K
C333 2. 2μ50
MUTE
Q313
R344 2. 2K
3. 8V
3. 1V
R343 2. 2K
C307 10μ35
IC301 B. P. F
IC301 BUFFER (F41 ONLY)
IC301 1/2
★R313 1. 5K
★W401
C308 10μ35
IC301 2/2
W402
★R314 1. 5K
D301
R342 180
4. 9V
★R311 470
★C305 180P
★R309 300
★C306 180P
★R312 470
★R310 300
-11. 9V
R301 100
R302 100
★C303 2. 2μ50
★C304 2. 2μ50
11. 8V
★C301 0. 56
★R307 100
★R308 100
★C302 0. 56
N. B CIRCUIT
★R305 43K
★R303 3. 9K
★R306 43K
★R304 3. 9K
N. B CIRCUIT
★Q301
-0. 7V
R351 100K
-0. 7V
★Q302
R352 100K
11. 8V
R340 47 1/4
12. 2V
R341 47 1/4
-11. 9V
C331 47μ16
C332 47μ16
-12. 4V

SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-F3/F4/F41/F42 (3/6) (K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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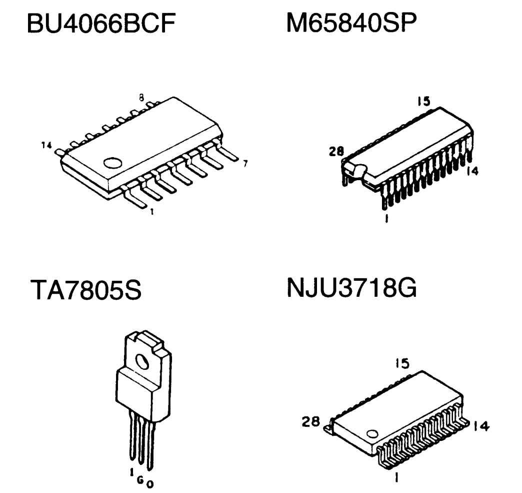
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

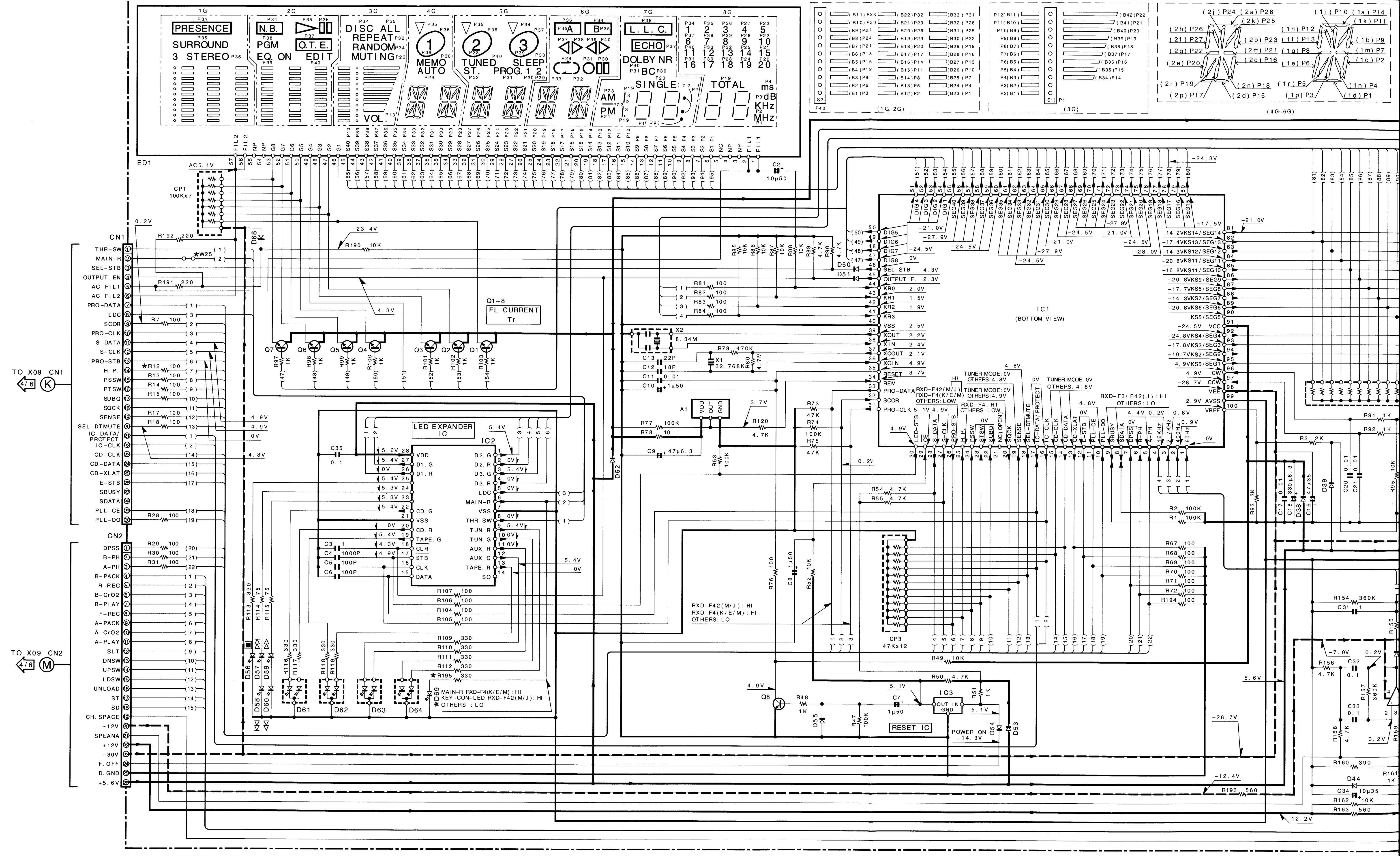


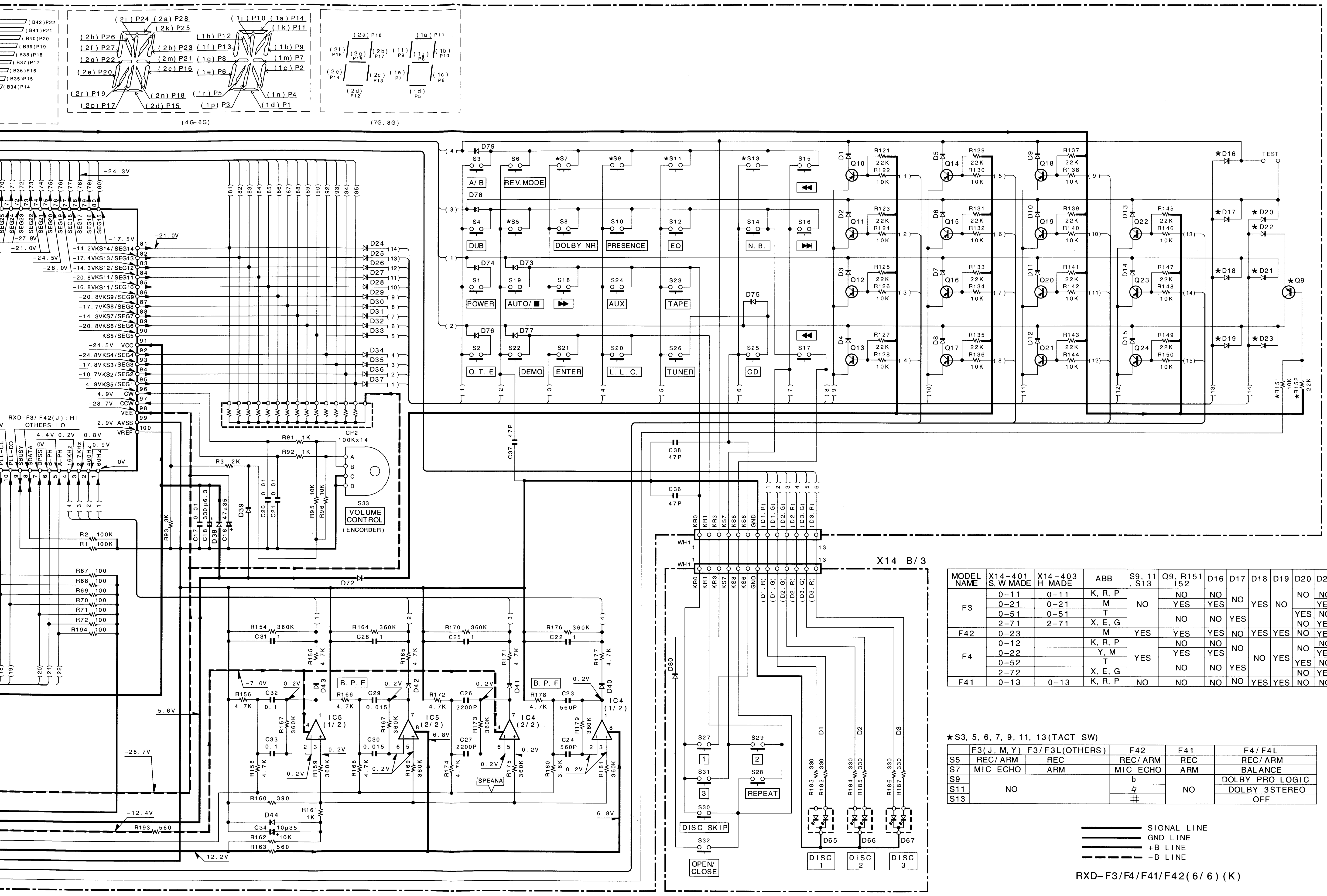
BU4066BCF
M65840SP
TA7805S
NJU3718G
8
14
7
1
15
28
14
1
1
15
28
14
1

RXD-F3/F4/F41/F42

KENWOOD

X14-40xx-xx A/3 DISPLAY UNIT


DB
DC
DD
DE
DF
DG
DH
DI
DJ
DK
1
2
3
4
5
6
7
ED1
PRESENCE
SURROUND
3 STEREO
N.B.
PGM
O.T.E.
EQ. ON
EDIT
DISC ALL
REPEAT
RANDOM
MUTING
VOL.
MEMO
AUTO
TUNED
ST.
SLEEP
PROG. 1 2
L. L. C.
ECHO
DOLBY NR
BC
SINGLE
TOTAL
AM
PM
ms
dB
KHz
MHz
(1G, 2G)
(3G)
(4G-6G)
AC5. 1V
CP1
100Kx7
CN1
THR-SW
MAIN-R
SEL-STB
OUTPUT EN
AC FIL1
AC FIL2
PRO-DATA
LDC
SCOR
PRO-CLK
S-DATA
S-CLK
PRO-STB
H. P.
PSSW
PTSW
SUBQ
SQCK
SENSE
SEL-DTMUTE
IC-DATA/PROTECT
IC-CLK
CD-CLK
CD-DATA
CD-XLAT
E-STB
SBUSY
SDATA
PLL-CE
PLL-DO
TO X09 CN1
4/6
K
CN2
DPSS
B-PH
A-PH
B-PACK
R-REC
B-CrO2
B-PLAY
F-REC
A-PACK
A-CrO2
A-PLAY
SLT
DNSW
UPSW
LDSW
UNLOAD
ST
SD
CH. SPACE
-12V
SPEANA
+12V
-30V
F. OFF
D. GND
+5. 6V
TO X09 CN2
4/6
M
Q1~8
FL CURRENT
Tr
LED EXPANDER
IC
IC2
VDD
D1. G
D1. R
CD. G
VSS
CD. R
TAPE. G
CLR
STB
CLK
DATA
D2. G
D2. R
D3. G
D3. R
LDC
MAIN-R
VSS
THR-SW
TUN. R
TUN. G
AUX. R
AUX. G
TAPE. R
SO
D61
D62
D63
D64
MAIN-R RXD-F4(K/E/M) : HI
KEY-CON-LED RXD-F42(M/J) : HI
OTHERS : LO
X2
8. 34M
X1
32. 768KHz
A1
VDD
OUT
GND
IC1
(BOTTOM VIEW)
DIG5
DIG6
DIG7
DIG8
SEL-STB
OUTPUT E.
KR0
KR1
KR2
KR3
VSS
XOUT
XIN
XCOUT
XCIN
RESET
REM
PRO-DATA
SCOR
PRO-CLK
VKS14/SEG14
VKS13/SEG13
VKS12/SEG12
VKS11/SEG11
VKS11/SEG10
VKS9/SEG9
VKS8/SEG8
VKS7/SEG7
VKS6/SEG6
KS5/SEG5
VCC
VKS4/SEG4
VKS3/SEG3
VKS2/SEG2
VKS5/SEG1
CW
CCW
VEE
AVSS
VREF
TUNER MODE: 0V
OTHERS: 4. 8V
RXD-F42(M/J)
RXD-F4(K/E/M)
OTHERS: LOW
RXD-F4: HI
RXD-F3/F42(J): HI
OTHERS: LO
CP3
47Kx12
RXD-F42(M/J) : HI
RXD-F4(K/E/M) : HI
OTHERS: LO
IC3
OUT IN
GND
RESET IC
POWER ON
-14. 3V
Q8
D50
D51
D52
D53
D54
D55
D56
D57
D58
D59
D60
D68
D69
D38
D39
D44


(2j) P24
(2a) P28
(2k) P25
(2h) P26
(2f) P27
(2b) P23
(2g) P22
(2m) P21
(2e) P20
(2c) P16
(2r) P19
(2n) P18
(2p) P17
(2d) P15
(1j) P10
(1a) P14
(1k) P11
(1h) P12
(1b) P9
(1f) P13
(1g) P8
(1m) P7
(1e) P6
(1c) P2
(1r) P5
(1n) P4
(1p) P3
(1d) P1
(4G~6G)
(7G, 8G)
(B42)P22
(B41)P21
(B40)P20
(B39)P19
(B38)P18
(B37)P17
(B36)P16
(B35)P15
(B34)P14
-24.3V
-17.5V
-21.0V
-27.9V
-24.5V
-28.0V
-14.2VKS14/SEG14
-17.4VKS13/SEG13
-14.3VKS12/SEG12
-20.8VKS11/SEG11
-16.8VKS11/SEG10
-20.8VKS9/SEG9
-17.7VKS8/SEG8
-14.3VKS7/SEG7
-20.8VKS6/SEG6
KS5/SEG5
-24.5V VCC
-24.8VKS4/SEG4
-17.8VKS3/SEG3
-10.7VKS2/SEG2
4.9VKS5/SEG1
4.9V CW
-28.7V CCW
VEE
2.9V AVSS
VREF
RXD-F3/F42(J): HI
OTHERS: LO
4.4V 0.2V 0.8V
0.9V
0V
PLL-CE
PLL-DO
SBUSY
SDATA
DPSS
B-PH
A-PH
16KHz
2.7KHz
400Hz
60Hz
R3 2K
R91 1K
R92 1K
CP2 100Kx14
R95 10K
R96 10K
S33
VOLUME CONTROL
(ENCORDER)
R2 100K
R1 100K
R93 3K
C17 0.01
C18 330μ6.3
C16 47μ35
D38
D39
C20 0.01
C21 0.01
C37 47P
C38 47P
C36 47P
D79
D78
D74
D73
D76
D77
D75
D72
S3 A/B
S6 REV.MODE
★S7
★S9
★S11
★S13
S15
S4 DUB
★S5
S8 DOLBY NR
S10 PRESENCE
S12 EQ
S14 N.B.
S16
S1 POWER
S19 AUTO/■
S18 ▶▶
S24 AUX
S23 TAPE
S2 O.T.E
S22 DEMO
S21 ENTER
S20 L.L.C.
S26 TUNER
S25 CD
S17
D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35 D36 D37
D1 Q10 R121 22K R122 10K
D2 Q11 R123 22K R124 10K
D3 Q12 R125 22K R126 10K
D4 Q13 R127 22K R128 10K
D5 Q14 R129 22K R130 10K
D6 Q15 R131 22K R132 10K
D7 Q16 R133 22K R134 10K
D8 Q17 R135 22K R136 10K
D9 Q18 R137 22K R138 10K
D10 Q19 R139 22K R140 10K
D11 Q20 R141 22K R142 10K
D12 Q21 R143 22K R144 10K
D13 Q22 R145 22K R146 10K
D14 Q23 R147 22K R148 10K
D15 Q24 R149 22K R150 10K
★D16 TEST
★D17 ★D20 ★D22
★D18 ★D21 ★Q9
★D19 ★D23
★R151 10K
★R152 22K
KR0 KR1 KR3 KS7 KS8 KS6 GND (D1.R) (D1.G) (D2.G) (D2.R) (D3.G) (D3.R)
WH1
X14 B/3
R154 360K C31 1
R164 360K C28 1
R170 360K C25 1
R176 360K C22 1
R155 4.7K D43
R165 4.7K D42
R171 4.7K D41
R177 4.7K D40
B.P.F
-7.0V 0.2V
R156 4.7K C32 0.1
R157 360K
IC5 (1/2)
R166 4.7K C29 0.015
R167 360K
IC5 (2/2)
6.8V
R172 4.7K C26 2200P
R173 360K
IC4 (2/2)
R178 4.7K C23 560P
R179 360K
IC4 (1/2)
C33 0.1
C30 0.015
C27 2200P
C24 560P
R158 4.7K
R159 360K
R168 4.7K
R169 360K
R174 4.7K
R175 360K
SPEANA
R180 3.6K
R181 360K
R160 390
R161 1K
D44
C34 10μ35
R162 10K
R163 560
R193 560
R67 100 R68 100 R69 100 R70 100 R71 100 R72 100 R194 100
5.6V
-28.7V
-12.4V
12.2V
6.8V
D80
S27 1
S29 2
S31 3
S28 REPEAT
S30 DISC SKIP
S32 OPEN/CLOSE
R183 330 R182 330
R184 330 R185 330
R186 330 R187 330
D65 D66 D67
DISC 1
DISC 2
DISC 3

X14 A/3, B/3

IC1 : M38198MC-
IC2 : NJU3718G
IC3 : S-806D-Z
PST993D-T
IC4, 5 : NJM4565D

Q1~8 : 2SC4081
Q9~24 : 2SA1576

D1~15, 17~21
23, 28~39, 44
50~55, 72
75~80 : 1SS131 or
D16, 22,
24~27,
40~43, 70, 71,
73, 74 : MA111
D56~60 : B30-2462-
D61~67 : B30-2476-
D68 : RD5. 1ES(B
HZS5. 1N(B
UZ-5. 1BSB
D69 : B30-1291-

ED1 : BJ344GK o

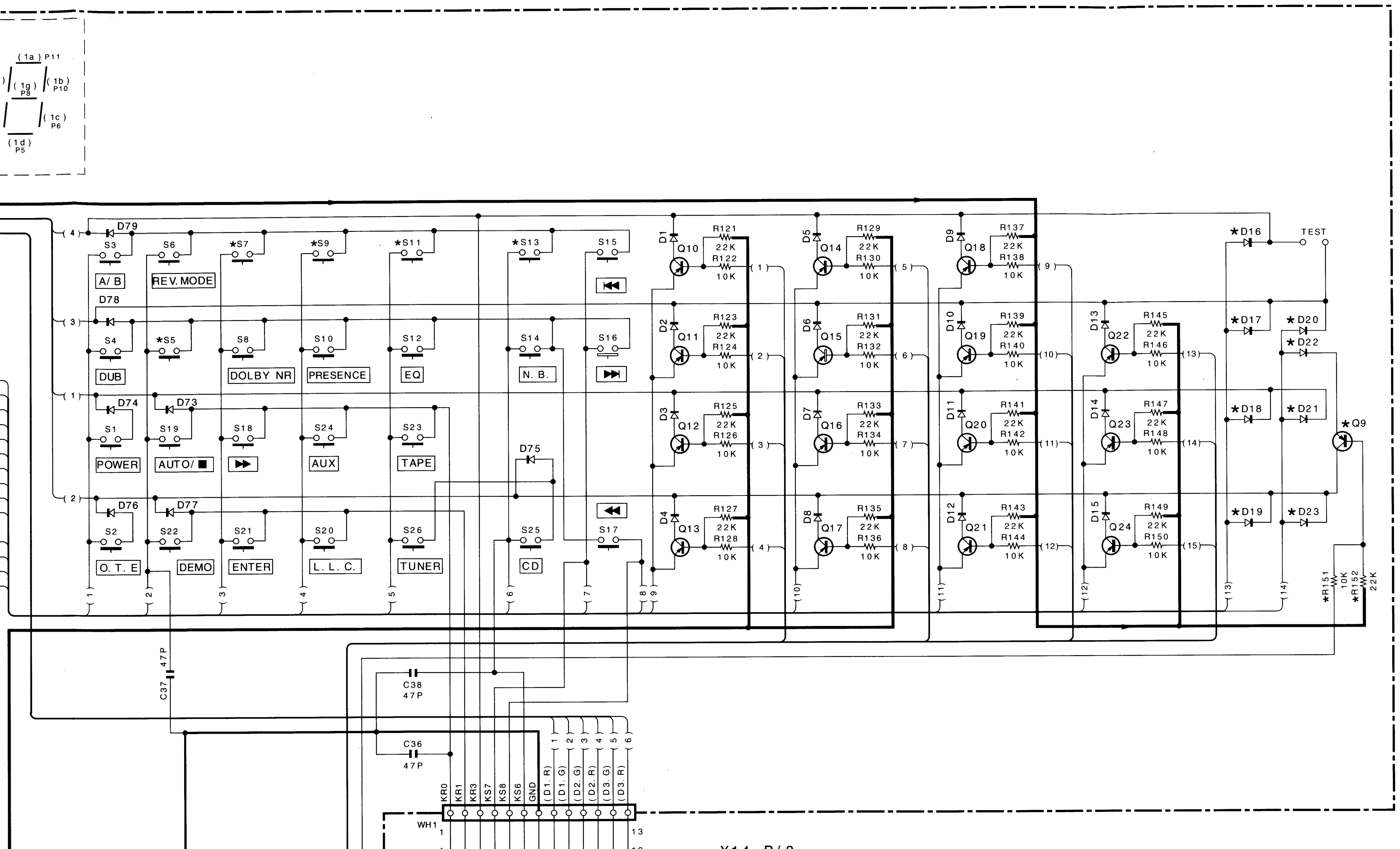
MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	S9, 11, S13	Q9, R151 152	D16	D17	D18	D19	D20	D21	D22	D23	D69 R195	R12	W25
F3	0-11	0-11	K, R, P	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
	0-21	0-21	M		YES	YES					YES	YES				
	0-51	0-51	T		NO	NO	YES			YES	NO	NO				
	2-71	2-71	X, E, G							NO	YES		YES			
F42	0-23		M	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
F4	0-12		K, R, P	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	YES
	0-22		Y, M		YES	YES					YES	YES				
	0-52		T		NO	NO	YES			YES	NO	NO				
	2-72		X, E, G							NO	YES		YES			
F41	0-13	0-13	K, R, P	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES

★S3, 5, 6, 7, 9, 11, 13(TACT SW)

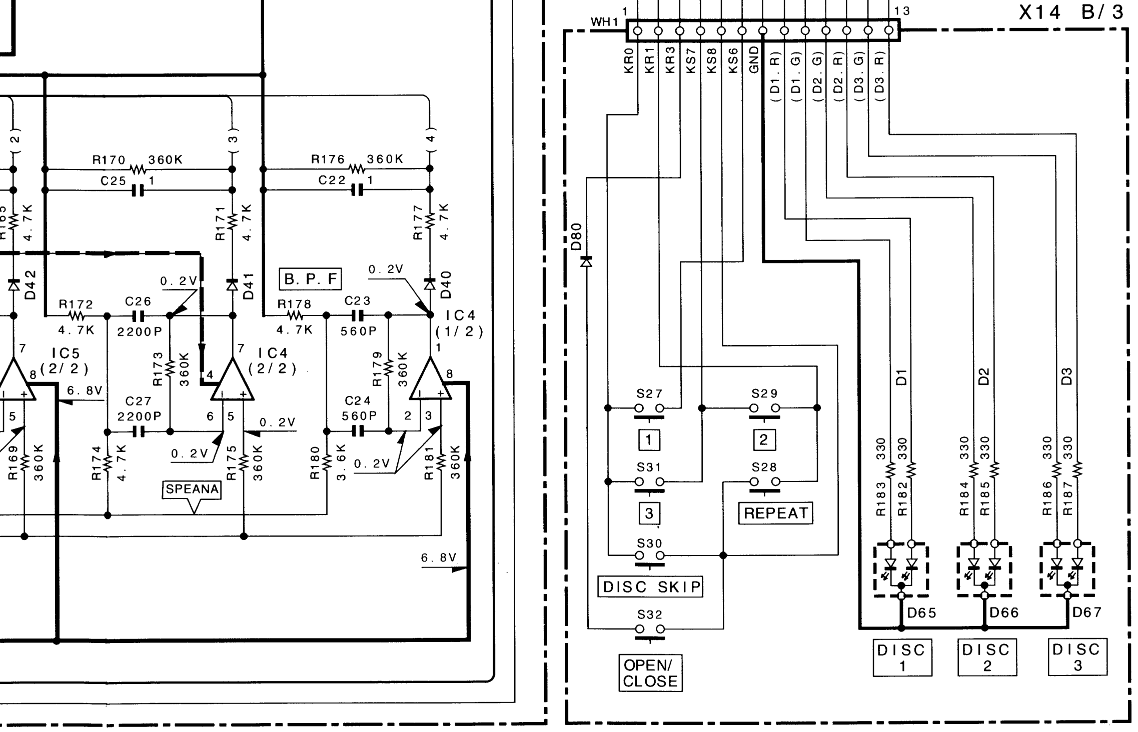
	F3(J, M, Y)	F3/F3L(OTHERS)	F42	F41	F4/F4L
S5	REC/ARM	REC	REC/ARM	REC	REC/ARM
S7	MIC ECHO	ARM	MIC ECHO	ARM	BALANCE
S9	NO		b	NO	DOLBY PRO LOGIC
S11			ϟ		DOLBY 3STEREO
S13			♯		OFF

SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-F3/F4/F41/F42(6/6)(K)



S3 A/B
S6 REV. MODE
★S7
★S9
★S11
★S13
S15
S4 DUB
★S5
S8 DOLBY NR
S10 PRESENCE
S12 EQ
S14 N. B.
S16
S1 POWER
S19 AUTO/■
S18
S24 AUX
S23 TAPE
S2 O. T. E
S22 DEMO
S21 ENTER
S20 L. L. C.
S26 TUNER
S25 CD
S17
D73
D74
D75
D76
D77
D78
D79
Q10
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
Q20
Q21
Q22
Q23
Q24
★Q9
★D16
★D17
★D18
★D19
★D20
★D22
★D21
★D23
TEST
★R151 10K
★R152 22K
C37 47P
C38 47P
C36 47P
WH1
KR0 KR1 KR3 KS7 KS8 KS6 GND (D1. R) (D1. G) (D2. R) (D2. G) (D3. G) (D3. R)



X14 B/3
WH1
KR0 KR1 KR3 KS7 KS8 KS6 GND (D1. R) (D1. G) (D2. R) (D2. G) (D3. G) (D3. R)
R170 360K
C25
R176 360K
C22
R171 4.7K
R177 4.7K
D42
D41
D40
B. P. F
0.2V
R172 4.7K
C26 2200P
R178 4.7K
C23 560P
IC4 (1/2)
IC5 (2/2)
IC4 (2/2)
6.8V
R173 360K
R179 360K
C27 2200P
C24 560P
R174 4.7K
R175 360K
R180 3.6K
R181 360K
R169 360K
SPEANA
D80
S27 1
S29 2
S31 3
S28 REPEAT
S30 DISC SKIP
S32 OPEN/ CLOSE
D1 D2 D3
R183 330 R182 330
R184 330 R185 330
R186 330 R187 330
D65 D66 D67
DISC 1
DISC 2
DISC 3

X14 A/3, B/3

IC1 : M38198MC-053FP
IC2 : NJU3718G
IC3 : S-806D-Z or
PST993D-T
IC4, 5 : NJM4565D

Q1~8 : 2SC4081
Q9~24 : 2SA1576

D1~15, 17~21
23, 28~39, 44
50~55, 72
75~80 : 1SS131 or HSS104A
D16, 22,
24~27,
40~43, 70, 71,
73, 74 : MA111
D56~60 : B30-2462-05
D61~67 : B30-2476-05
D68 : RD5. 1ES(B2) or
HZS5. 1N(B2) or
UZ-5. 1BSB (F4, F42 ONLY)
D69 : B30-1291-05

ED1 : BJ344GK or FIP8AMW6R

MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	S9, 11, S13	Q9, R151 152	D16	D17	D18	D19	D20	D21	D22	D23	D69 R195	R12	W25
F3	0-11	0-11	K, R, P	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
	0-21	0-21	M		YES	YES					YES	YES				
	0-51	0-51	T		NO	NO	YES			YES	NO	NO				
	2-71	2-71	X, E, G							NO	YES		YES			
F42	0-23		M	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
F4	0-12		K, R, P	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	YES
	0-22		Y, M		YES	YES					YES	YES				
	0-52		T		NO	NO	YES			YES	NO	NO				
	2-72		X, E, G							NO	YES		YES			
F41	0-13	0-13	K, R, P	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES

★S3, 5, 6, 7, 9, 11, 13(TACT SW)

	F3(J, M, Y)	F3/F3L(OTHERS)	F42	F41	F4/F4L
S5	REC/ARM	REC	REC/ARM	REC	REC/ARM
S7	MIC ECHO	ARM	MIC ECHO	ARM	BALANCE
S9	NO		b	NO	DOLBY PRO LOGIC
S11			ϟ		DOLBY 3STEREO
S13			#		OFF

▬▬▬▬	SIGNAL LINE
────	GND LINE
━━━━	+B LINE
▬ ▬ ▬ ▬	-B LINE

RXD-F3/F4/F41/F42(6/6)(K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

Y39-2130-11

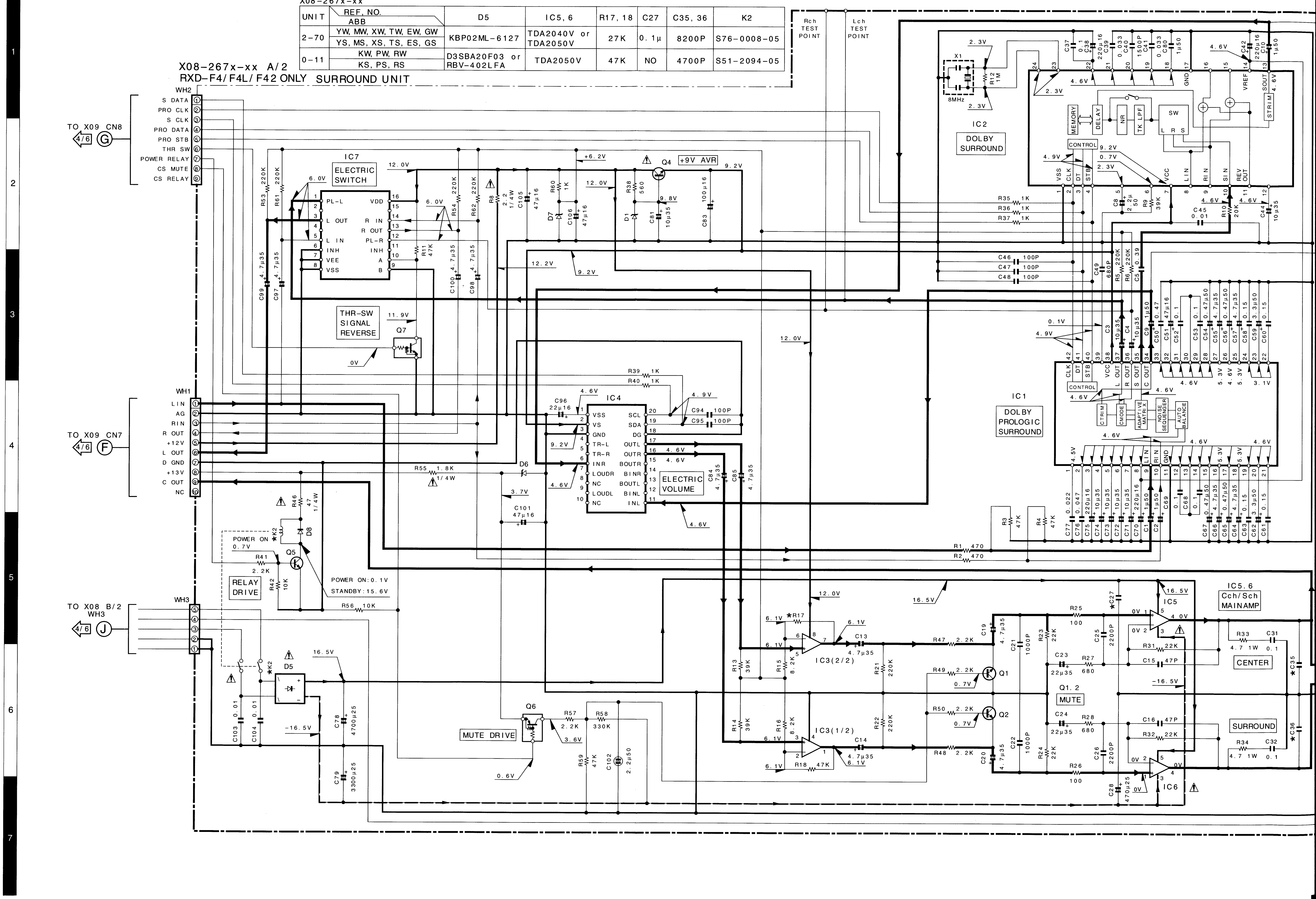
RXD-F3/F4/F41/F42

KENWOOD

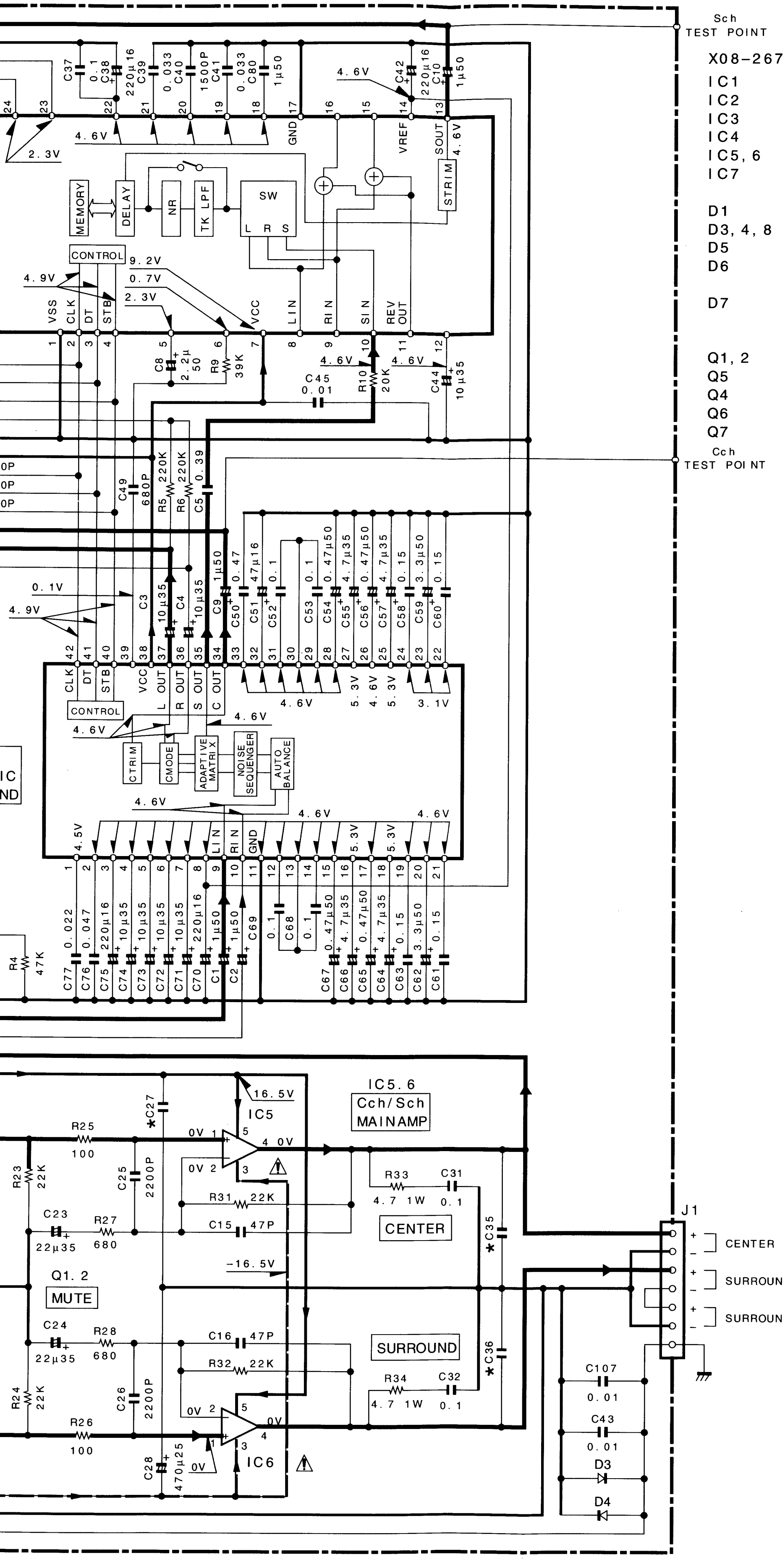
X08-267x-xx

UNIT	REF. NO. ABB	D5	IC5, 6	R17, 18	C27	C35, 36	K2
2-70	YW, MW, XW, TW, EW, GW YS, MS, XS, TS, ES, GS	KBP02ML-6127	TDA2040V or TDA2050V	27K	0. 1μ	8200P	S76-0008-05
0-11	KW, PW, RW KS, PS, RS	D3SBA20F03 or RBV-402LFA	TDA2050V	47K	NO	4700P	S51-2094-05

X08-267x-xx A/2
RXD-F4/F4L/F42 ONLY SURROUND UNIT



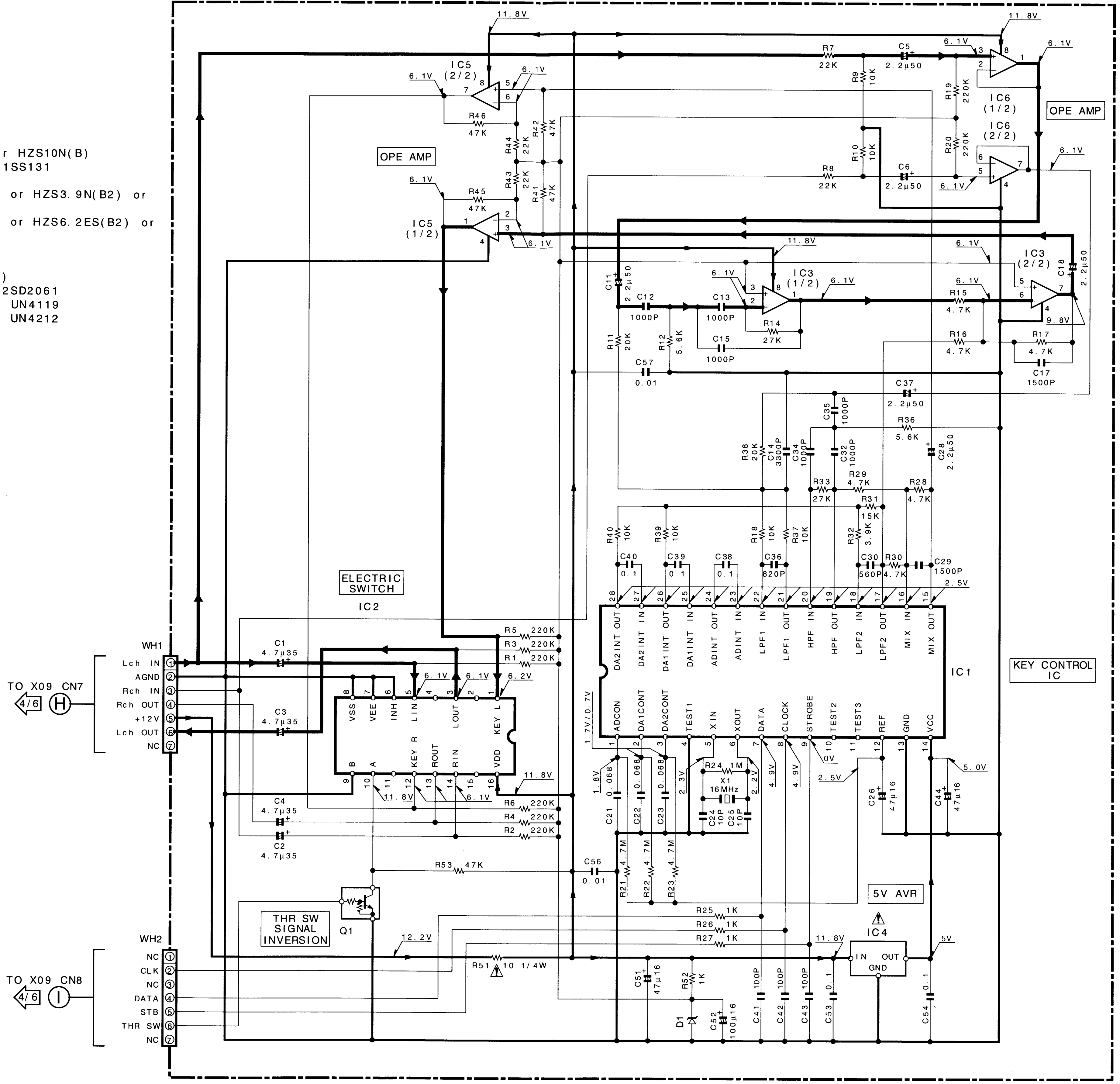
CG
CH
CI
CJ
CK
CL
CM
CN
CO
CP
1
2
3
4
5
6
7
Rch TEST POINT
Lch TEST POINT
WH2
S DATA
PRO CLK
S CLK
PRO DATA
PRO STB
THR SW
POWER RELAY
CS MUTE
CS RELAY
TO X09 CN8
4/6 G
IC7
ELECTRIC SWITCH
PL-L
L OUT
L IN
INH
VEE
VSS
VDD
R IN
R OUT
PL-R
A
B
THR-SW SIGNAL REVERSE
Q7
Q4
+9V AVR
WH1
LIN
AG
RIN
R OUT
+12V
L OUT
D GND
+13V
C OUT
NC
TO X09 CN7
4/6 F
IC4
VSS
VS
GND
TR-L
TR-R
INR
LOUDR
NC
LOUDL
SCL
SDA
DG
OUTL
OUTR
BOUTR
BINR
BOUTL
BINL
INL
ELECTRIC VOLUME
POWER ON 0.7V
RELAY DRIVE
Q5
POWER ON: 0.1V
STANDBY: 15.6V
TO X08 B/2 WH3
4/6 J
WH3
D5
MUTE DRIVE
Q6
IC2
DOLBY SURROUND
X1
8MHz
MEMORY
DELAY
NR
TK LPF
SW
CONTROL
STRIM
IC1
DOLBY PROLOGIC SURROUND
CTRIM
CMODE
ADAPTIVE MATRIX
NOISE SEQUENCER
AUTO BALANCE
IC3(2/2)
IC3(1/2)
Q1
Q2
Q1, 2
MUTE
IC5
IC6
IC5, 6
Cch/Sch MAINAMP
CENTER
SURROUND


Sch
TEST POINT
Cch
TEST POINT
MEMORY
DELAY
NR
TK LPF
SW
CONTROL
CTRIM
CMODE
ADAPTIVE MATRIX
NOISE SEQUENCER
AUTO BALANCE
IC5.6
Cch/Sch
MAINAMP
IC5
IC6
CENTER
SURROUND
Q1, 2
MUTE
J1
CENTER
SURROUND L
SURROUND R
D3
D4

X08-267x-xx

IC1	: LA2785
IC2	: LV1011
IC3	: NJM4565L-D
IC4	: TDA7315
IC5, 6	: *
IC7	: XRU4052BC
D1	: RD10ES(B) or HZS10N(B)
D3, 4, 8	: HSS104A or 1SS131
D5	: *
D6	: RD3. 9ES(B2) or HZS3. 9N(B2) or UZ-3. 9BSB
D7	: RD6. 2ES(B2) or HZS6. 2ES(B2) or UZ-6. 2BSB
Q1, 2	: 2SC2878(B)
Q5	: 2SC2003(L, K)
Q4	: 2SD2012 or 2SD2061
Q6	: DTA113ZS or UN4119
Q7	: DTC124ES or UN4212

X11-3600-00 RXD-F42 ONLY CONTOL UNIT


IC5 (2/2)
IC5 (1/2)
OPE AMP
IC6 (1/2)
IC6 (2/2)
OPE AMP
IC3 (1/2)
IC3 (2/2)
ELECTRIC SWITCH
IC2
IC1
KEY CONTROL IC
WH1
Lch IN
AGND
Rch IN
Rch OUT
+12V
Lch OUT
NC
TO X09 CN7
4/6
H
WH2
NC
CLK
NC
DATA
STB
THR SW
NC
TO X09 CN8
4/6
I
THR SW SIGNAL INVERSION
Q1
5V AVR
IC4
X1 16MHz

IC1	: M65840SP
IC2	: XRU4052BC
IC3, 5, 6	: NJM4565L-D
IC4	: UPC7805AHF or TA7805S

Q1	: DTC124ES or UN4212
D1	: RD6. 2ES(B2) or HZS6. 2N(B2) or UZ-6. 2BSB

━━ SIGNAL LINE
── GND LINE
── +B LINE
– – – –B LINE

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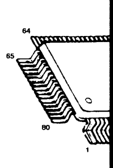
CXD2508



BU40

Sch
TEST POINT

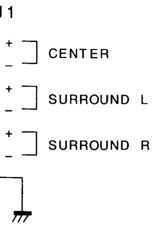
X08-267x-xx

IC1 : LA2785
IC2 : LV1011
IC3 : NJM4565L-D
IC4 : TDA7315
IC5, 6 : ★
IC7 : XRU4052BC

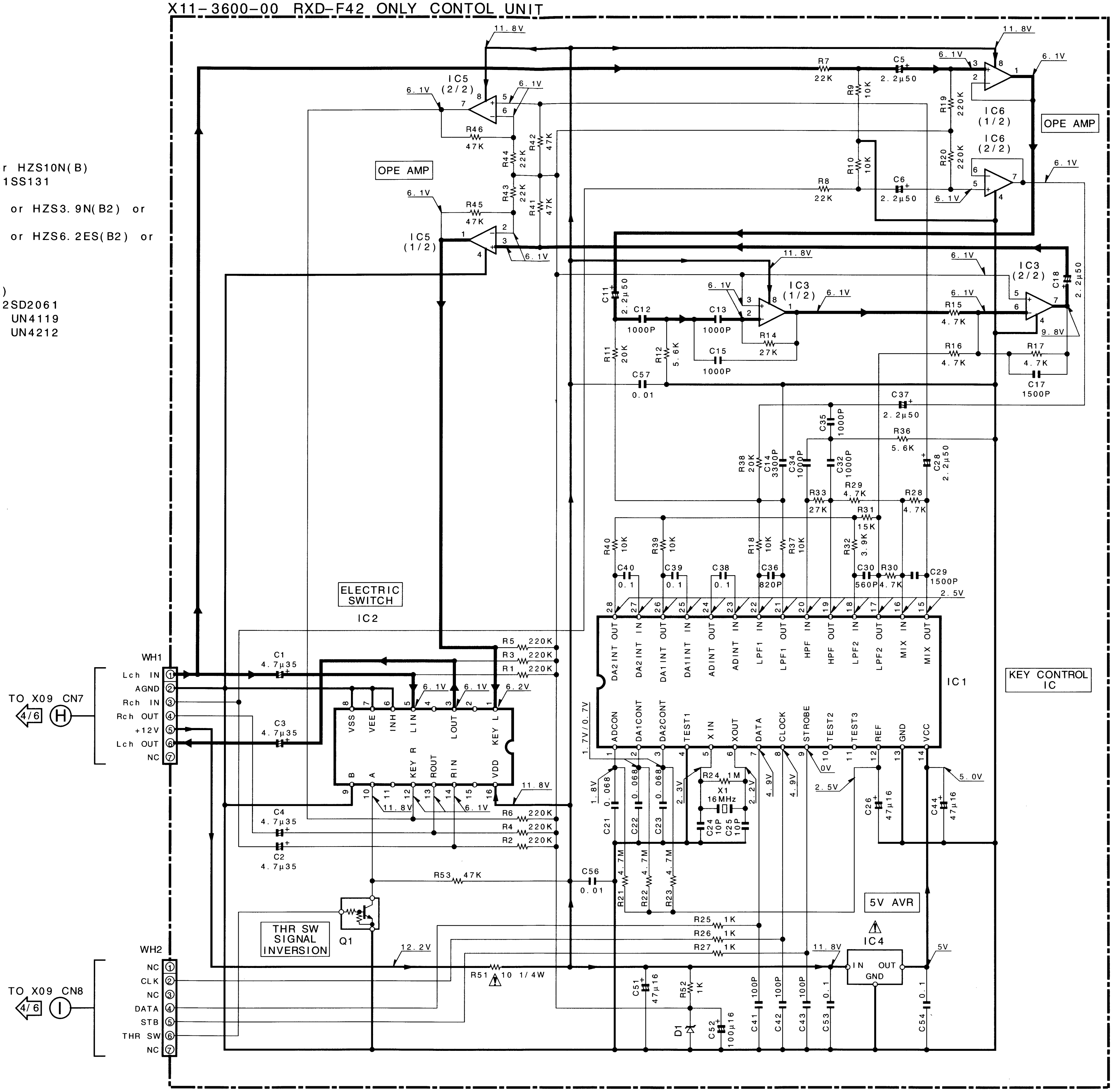
D1 : RD10ES(B) or HZS10N(B)
D3, 4, 8 : HSS104A or 1SS131
D5 : ★
D6 : RD3. 9ES(B2) or HZS3. 9N(B2) or UZ-3. 9BSB
D7 : RD6. 2ES(B2) or HZS6. 2ES(B2) or UZ-6. 2BSB

Q1, 2 : 2SC2878(B)
Q5 : 2SC2003(L, K)
Q4 : 2SD2012 or 2SD2061
Q6 : DTA113ZS or UN4119
Q7 : DTC124ES or UN4212

Cch
TEST POINT


1
CENTER
SURROUND L
SURROUND R

X11-3600-00 RXD-F42 ONLY CONTOL UNIT


IC5 (2/2)
IC5 (1/2)
OPE AMP
IC6 (1/2)
IC6 (2/2)
OPE AMP
IC3 (1/2)
IC3 (2/2)
11.8V
6.1V
R7 22K
C5 2.2μ50
R8 22K
C6 2.2μ50
R46 47K
R45 47K
R9 10K
R10 10K
R19 220K
R20 220K
ELECTRIC SWITCH
IC2
KEY CONTROL IC
IC1
WH1
Lch IN
AGND
Rch IN
Rch OUT
+12V
Lch OUT
NC
TO X09 CN7
4/6
H
WH2
NC
CLK
NC
DATA
STB
THR SW
NC
TO X09 CN8
4/6
I
THR SW SIGNAL INVERSION
Q1
5V AVR
IC4
IN OUT GND
12.2V
5V
5.0V
2.5V
0V
R51 10 1/4W
R53 47K
DA2INT OUT
DA2INT IN
DA1INT OUT
DA1INT IN
ADINT OUT
ADINT IN
LPF1 IN
LPF1 OUT
HPF IN
HPF OUT
LPF2 IN
LPF2 OUT
MIX IN
MIX OUT
ADCON
DA1CONT
DA2CONT
TEST1
XIN
XOUT
DATA
CLOCK
STROBE
TEST2
TEST3
REF
GND
VCC
X1 16MHz
R24 1M
VSS
VEE
INH
L IN
LOUT
KEY L
B
A
KEY R
ROUT
R IN
VDD
C1 4.7μ35
C2 4.7μ35
C3 4.7μ35
C4 4.7μ35
R1 220K
R2 220K
R3 220K
R4 220K
R5 220K
R6 220K

IC1 : M65840SP
IC2 : XRU4052BC
IC3, 5, 6 : NJM4565L-D
IC4 : UPC7805AHF or TA7805S

Q1 : DTC124ES or UN4212

D1 : RD6. 2ES(B2) or HZS6. 2N(B2) or UZ-6. 2BSB

━━━━ SIGNAL LINE
──── GND LINE
──── +B LINE
– – – – –B LINE

RXD-F3/F4/F41/F42(5/6)(K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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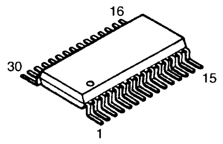
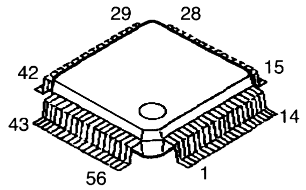
Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légéremenf du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

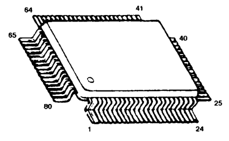
NJU7313AM



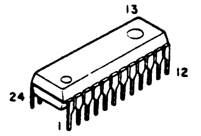
HA12182F


29
28
42
15
43
14
56
1

CXD2508AQ



LC7218
LV1011



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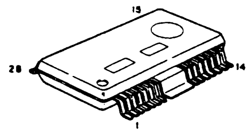
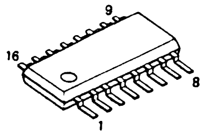
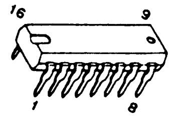


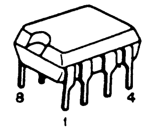
BU4094BCF



BU4094BC



BA10393
XRA15218-DX



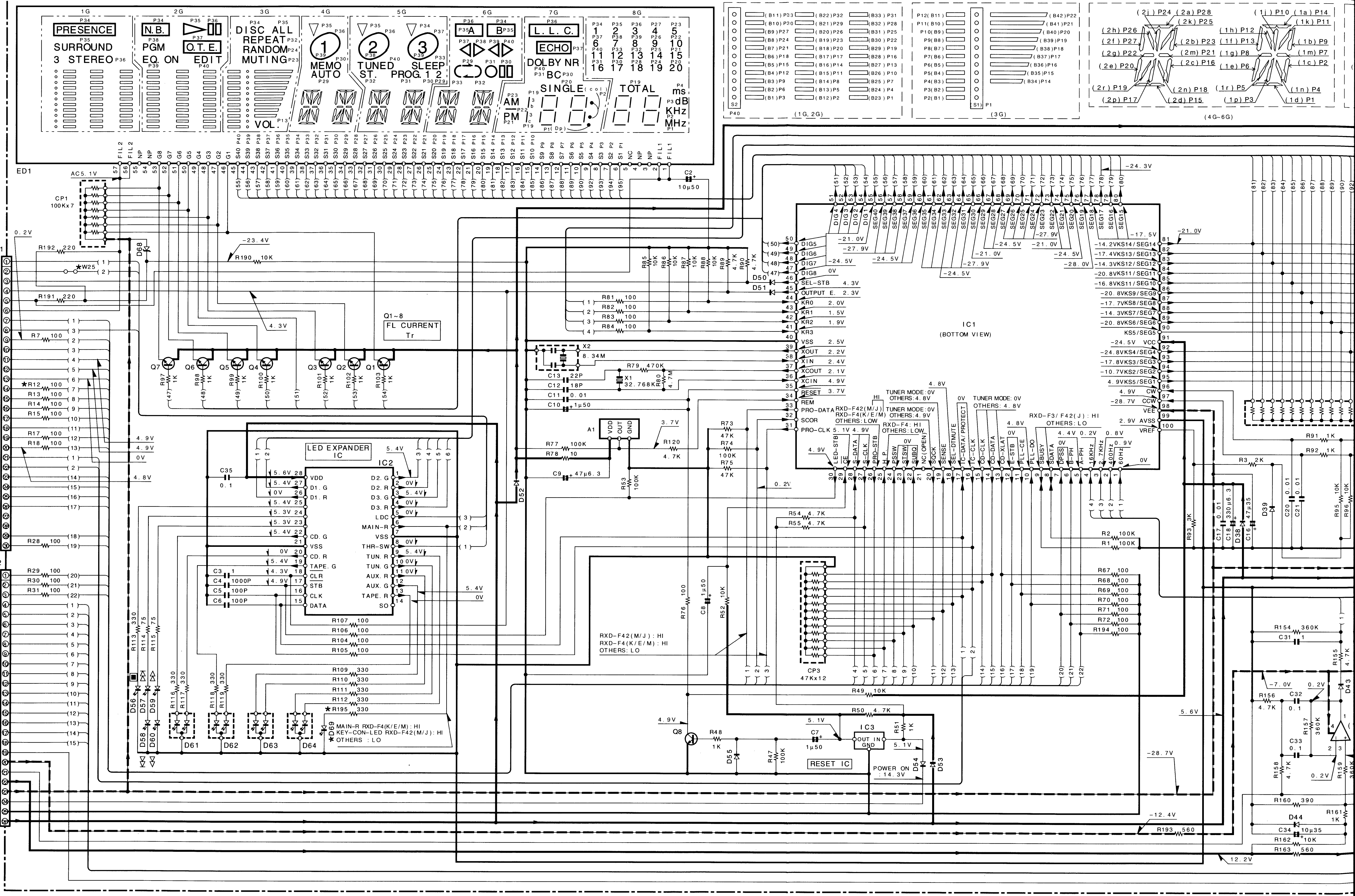
Y39-2130-11

RXD-F3/F4/F41/F42

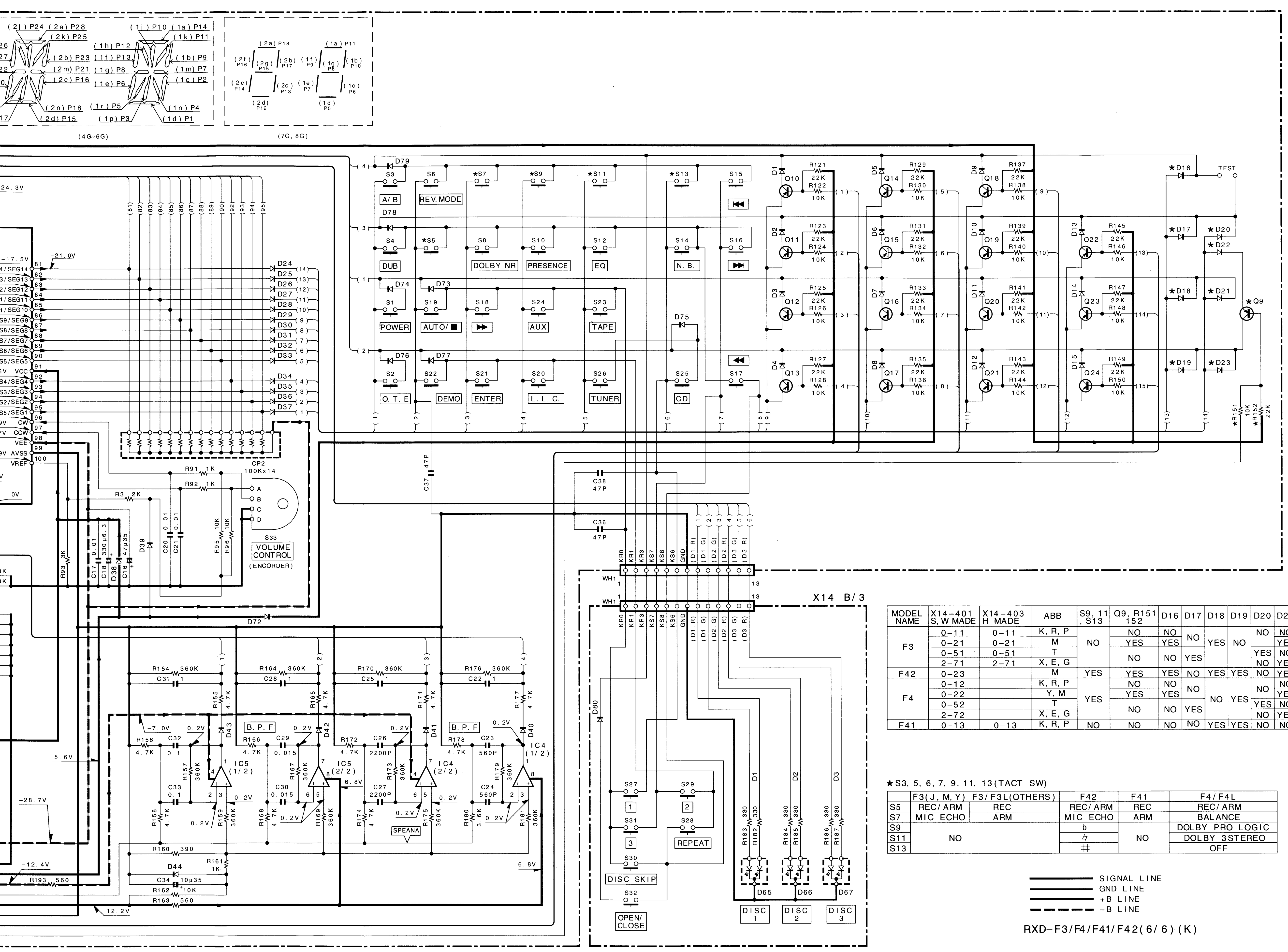
KENWOOD

DB DC DD DE DF DG DH DI DJ DK

X14-40xx-xx A/3 DISPLAY UNIT


ED1
PRESENCE
SURROUND
3 STEREO
N.B.
PGM
EQ. ON
O.T.E.
EDIT
DISC ALL
REPEAT
RANDOM
MUTING
VOL.
MEMO
AUTO
TUNED
ST.
SLEEP
PROG. 1 2
L. L. C.
ECHO
DOLBY NR
BC
AM
PM
SINGLE
TOTAL
ms
dB
KHz
MHz
(1G, 2G)
(3G)
(4G-6G)
CP1 100Kx7
AC5. 1V
CN1
THR-SW
MAIN-R
SEL-STB
OUTPUT EN
AC FIL1
AC FIL2
PRO-DATA
LDC
SCOR
PRO-CLK
S-DATA
S-CLK
PRO-STB
H. P.
PSSW
PTSW
SUBQ
SOCK
SENSE
SEL-DTMUTE
IC-DATA/PROTECT
IC-CLK
CD-CLK
CD-DATA
CD-XLAT
E-STB
SBUSY
SDATA
PLL-CE
PLL-DO
TO X09 CN1 4/6 K
CN2
DPSS
B-PH
A-PH
B-PACK
R-REC
B-CrO2
B-PLAY
F-REC
A-PACK
A-CrO2
A-PLAY
SLT
DNSW
UPSW
LDSW
UNLOAD
ST
SD
CH. SPACE
-12V
SPEANA
+12V
-30V
F. OFF
D. GND
+5. 6V
TO X09 CN2 4/6 M
Q1~8 FL CURRENT Tr
LED EXPANDER IC
IC2
IC1 (BOTTOM VIEW)
X1 32. 768K
X2 8. 34M
A1
IC3
RESET IC
POWER ON : 14. 3V
CP3 47Kx12
D61
D62
D63
D64
MAIN-R RXD-F4(K/E/M) : HI
KEY-CON-LED RXD-F42(M/J) : HI
OTHERS : LO
RXD-F42(M/J) : HI
RXD-F4(K/E/M) : HI
OTHERS : LO
TUNER MODE : 0V
OTHERS : 4. 8V
RXD-F3/F42(J) : HI
OTHERS : LO
-24. 3V
-23. 4V
-28. 7V
-12. 4V
12. 2V
5. 6V

1 2 3 4 5 6 7


(4G~6G)
(7G, 8G)
A/B
REV. MODE
DUB
DOLBY NR
PRESENCE
EQ
N. B.
POWER
AUTO/■
▶▶
AUX
TAPE
O. T. E
DEMO
ENTER
L. L. C.
TUNER
CD
TEST
VOLUME CONTROL
(ENCORDER)
CP2 100Kx14
B. P. F
IC5 (1/2)
IC5 (2/2)
IC4 (2/2)
IC4 (1/2)
SPEANA
WH1
X14 B/3
DISC SKIP
REPEAT
OPEN/CLOSE
DISC 1
DISC 2
DISC 3
D65
D66
D67

X14 A/3, B/3

IC1	: M38198MC-053FP
IC2	: NJU3718G
IC3	: S-806D-Z or PST993D-T
IC4, 5	: NJM4565D
Q1~8	: 2SC4081
Q9~24	: 2SA1576
D1~15, 17~21 23, 28~39, 44 50~55, 72 75~80	: 1SS131 or HSS104A
D16, 22, 24~27, 40~43, 70, 71, 73, 74	: MA111
D56~60	: B30-2462-05
D61~67	: B30-2476-05
D68	: RD5. 1ES(B2) or HZS5. 1N(B2) or UZ-5. 1BSB (F4, F42 ONLY)
D69	: B30-1291-05
ED1	: BJ344GK or FIP8AMW6R

MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	S9, 11, S13	Q9, R151 152	D16	D17	D18	D19	D20	D21	D22	D23	D69 R195	R12	W25
F3	0-11	0-11	K, R, P	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
	0-21	0-21	M		YES	YES					YES	YES				
	0-51	0-51	T		NO	NO	YES			YES	NO	NO				
	2-71	2-71	X, E, G							NO	YES		YES			
F42	0-23		M	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
F4	0-12		K, R, P	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	YES
	0-22		Y, M		YES	YES					YES	YES				
	0-52		T		NO	NO	YES			YES	NO	NO				
	2-72		X, E, G							NO	YES		YES			
F41	0-13	0-13	K, R, P	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES

★S3, 5, 6, 7, 9, 11, 13(TACT SW)

	F3(J, M, Y)	F3/F3L(OTHERS)	F42	F41	F4/F4L
S5	REC/ARM	REC	REC/ARM	REC	REC/ARM
S7	MIC ECHO	ARM	MIC ECHO	ARM	BALANCE
S9	NO		b	NO	DOLBY PRO LOGIC
S11			ϟ		DOLBY 3STEREO
S13			♯		OFF

SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-F3/F4/F41/F42(6/6)(K)

CAUTION: For continu
with manufacturer's rec
safety critical compone
replace only with same
shock, leakage-current
(exposed parts are acc
appliance is returned to

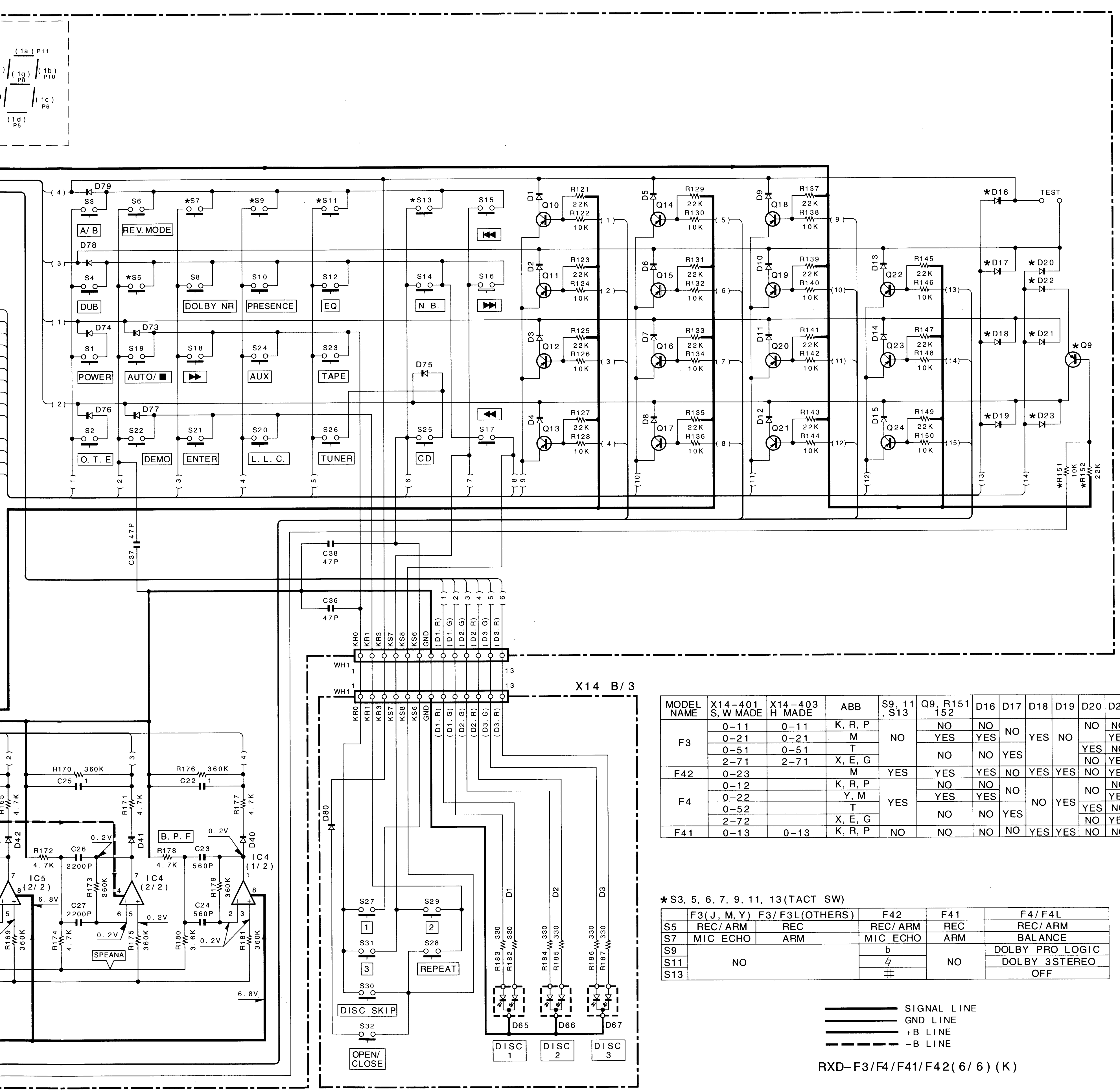
DOLBY and the double
Licensing Corporation.
Dolby Laboratories Licen

DC voltages are as mea
vary slightly due to varia

Les tensions c.c doivent
haute impédance Les
fait des variations inhére
de mesure individuels

Die angegebenen Gleich
hochohmigen Spannu
Meßwerte aufgrund vo
oder Geräten u. U gering

RXD


(1a) P11
(1g) P8
(1b) P10
(1c) P6
(1d) P5
D79
S3
A/B
S6
REV. MODE
★S7
★S9
★S11
★S13
S15
D78
S4
DUB
★S5
S8
DOLBY NR
S10
PRESENCE
S12
EQ
S14
N. B.
S16
D74
D73
S1
POWER
S19
AUTO/■
S18
S24
AUX
S23
TAPE
D75
D76
D77
S2
O. T. E
S22
DEMO
S21
ENTER
S20
L. L. C.
S26
TUNER
S25
CD
S17
Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24
R121 22K R122 10K
R123 22K R124 10K
R125 22K R126 10K
R127 22K R128 10K
R129 22K R130 10K
R131 22K R132 10K
R133 22K R134 10K
R135 22K R136 10K
R137 22K R138 10K
R139 22K R140 10K
R141 22K R142 10K
R143 22K R144 10K
R145 22K R146 10K
R147 22K R148 10K
R149 22K R150 10K
★D16
TEST
★D17
★D20
★D22
★D18
★D21
★Q9
★D19
★D23
★R151 10K
★R152 22K
C37 47P
C38 47P
C36 47P
KR0 KR1 KR3 KR7 KS8 KS6 GND (D1. R) (D1. G) (D2. G) (D2. R) (D3. G) (D3. R)
WH1
X14 B/3
D80
R170 360K
C25
R176 360K
C22
R171 4.7K
R177 4.7K
R165 4.7K
D42
D41
D40
B. P. F
0. 2V
R172 4.7K
C26 2200P
R178 4.7K
C23 560P
IC4 (1/2)
IC5 (2/2)
IC4 (2/2)
6. 8V
C27 2200P
R173 360K
R179 360K
C24 560P
R169 360K
R174 4.7K
R175 360K
R180 3.6K
R181 360K
SPEANA
S27
S29
1
2
S31
S28
3
REPEAT
S30
DISC SKIP
S32
OPEN/CLOSE
D1 D2 D3
R183 330 R182 330
R184 330 R185 330
R186 330 R187 330
D65 D66 D67
DISC 1
DISC 2
DISC 3

X14 A/3, B/3

IC1 : M38198MC-053FP
IC2 : NJU3718G
IC3 : S-806D-Z or PST993D-T
IC4, 5 : NJM4565D

Q1~8 : 2SC4081
Q9~24 : 2SA1576

D1~15, 17~21 23, 28~39, 44 50~55, 72 75~80 : 1SS131 or HSS104A
D16, 22, 24~27, 40~43, 70, 71, 73, 74 : MA111
D56~60 : B30-2462-05
D61~67 : B30-2476-05
D68 : RD5. 1ES(B2) or HZS5. 1N(B2) or UZ-5. 1BSB (F4, F42 ONLY)
D69 : B30-1291-05

ED1 : BJ344GK or FIP8AMW6R

MODEL NAME	X14-401 S, W MADE	X14-403 H MADE	ABB	S9, 11 , S13	Q9, R151 152	D16	D17	D18	D19	D20	D21	D22	D23	D69 R195	R12	W25
F3	0-11	0-11	K, R, P	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
	0-21	0-21	M		YES	YES					YES	YES				
	0-51	0-51	T		NO	NO	YES			YES	NO	NO				
	2-71	2-71	X, E, G							NO	YES		YES			
F42	0-23		M	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	YES	NO	NO
F4	0-12		K, R, P	YES	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	YES
	0-22		Y, M		YES	YES					YES	YES				
	0-52		T		NO	NO	YES			YES	NO	NO				
	2-72		X, E, G							NO	YES		YES			
F41	0-13	0-13	K, R, P	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	YES

★S3, 5, 6, 7, 9, 11, 13(TACT SW)

	F3(J, M, Y)	F3/F3L(OTHERS)	F42	F41	F4/F4L
S5	REC/ARM	REC	REC/ARM	REC	REC/ARM
S7	MIC ECHO	ARM	MIC ECHO	ARM	BALANCE
S9	NO		b	NO	DOLBY PRO LOGIC
S11			♮		DOLBY 3STEREO
S13			♯		OFF

SIGNAL LINE
GND LINE
+B LINE
– –B LINE

RXD-F3/F4/F41/F42(6/6)(K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c doivent être mesurées avec un voltmétre á haute impédance Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U geringfügig.

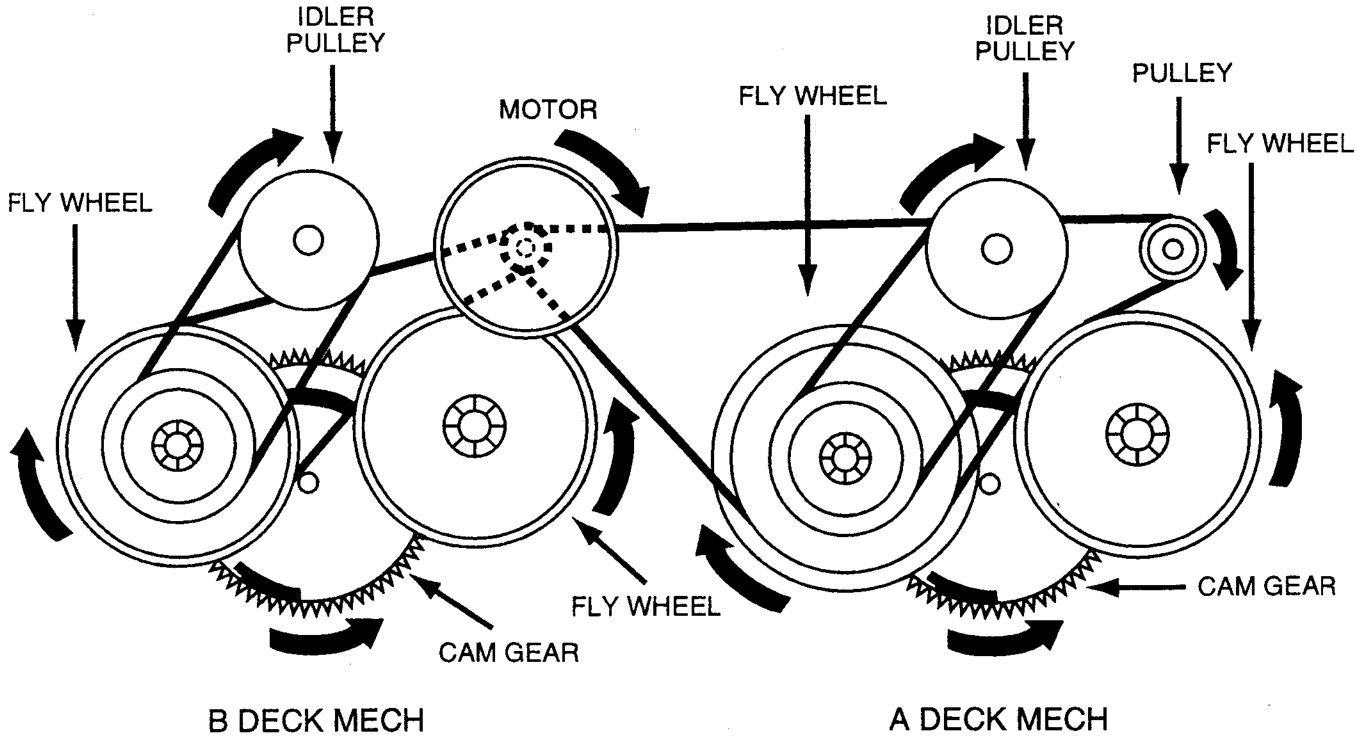
Y39-2130-11

RXD-F3/F4/F41/F42

KENWOOD

CASSETTE MECHANISM DESCRIPTION

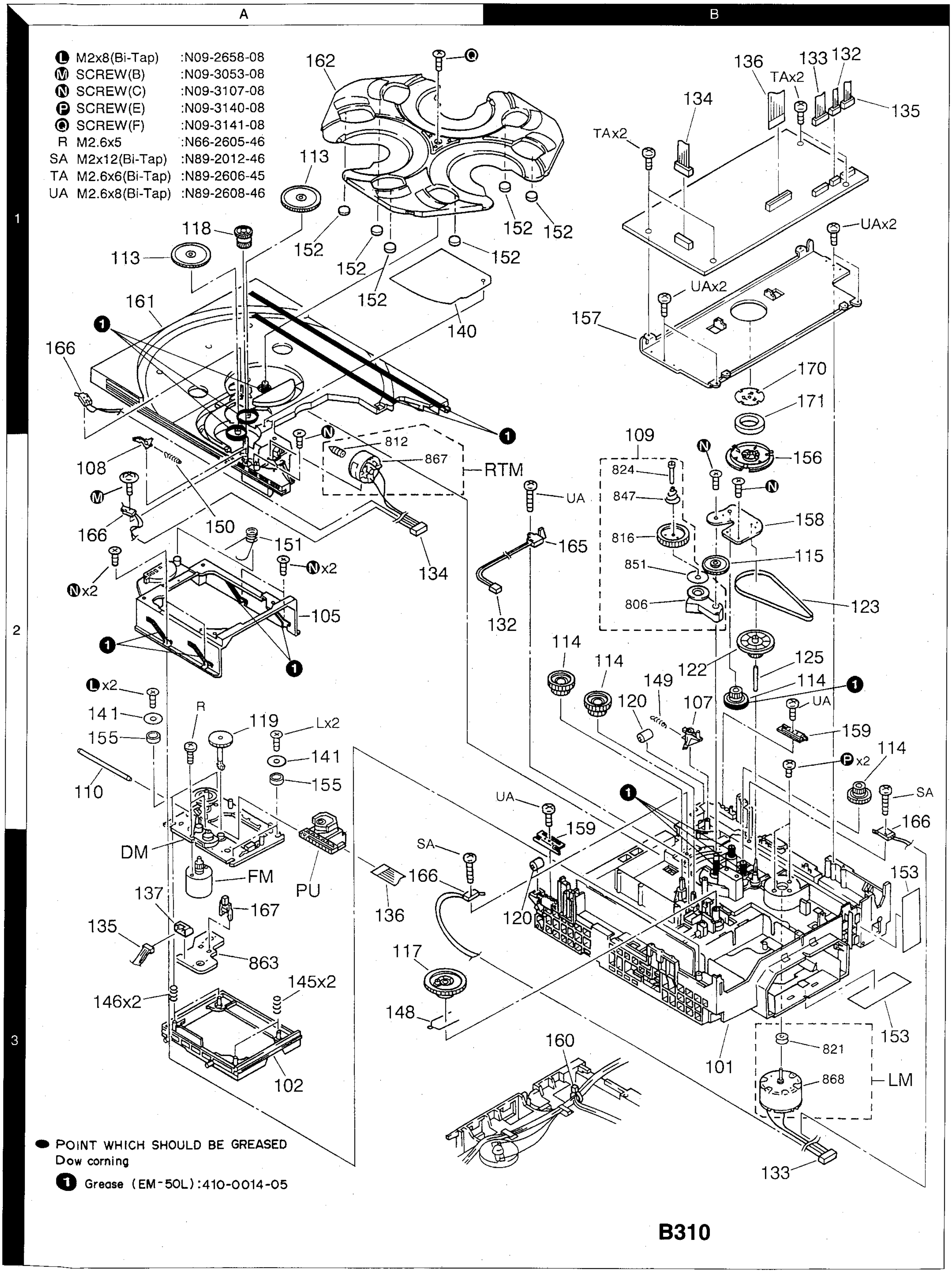
How to drive the double cassette deck with one motor


IDLER PULLEY
FLY WHEEL
MOTOR
FLY WHEEL
IDLER PULLEY
PULLEY
FLY WHEEL
CAM GEAR
FLY WHEEL
CAM GEAR
B DECK MECH
A DECK MECH

REAR VIEW

ONE MOTOR RVS MECH (GT-2400W)

EXPLODED VIEW(CD MECHANISM)



Ⓛ	M2x8(Bi-Tap)	:N09-2658-08
Ⓜ	SCREW(B)	:N09-3053-08
Ⓝ	SCREW(C)	:N09-3107-08
Ⓟ	SCREW(E)	:N09-3140-08
Ⓠ	SCREW(F)	:N09-3141-08
R	M2.6x5	:N66-2605-46
SA	M2x12(Bi-Tap)	:N89-2012-46
TA	M2.6x6(Bi-Tap)	:N89-2606-45
UA	M2.6x8(Bi-Tap)	:N89-2608-46

A
B
1
2
3
162
Ⓠ
113
152
152
152
152
152
152
118
113
161
140
❶
166
812
867
RTM
108
Ⓜ
166
150
151
134
Ⓝx2
Ⓝx2
105
❶
❶
Ⓛx2
141
155
110
R
119
Lx2
141
155
DM
FM
PU
137
167
135
863
146x2
145x2
102
136
133
132
TAx2
135
134
TAx2
UAx2
UAx2
157
170
171
109
824
847
816
851
806
Ⓝ
156
Ⓝ
158
115
123
UA
165
132
114
114
120
149
107
122
125
114
❶
UA
159
Ⓟx2
114
SA
166
UA
159
SA
166
136
120
117
148
❶
153
153
101
160
821
868
LM
133

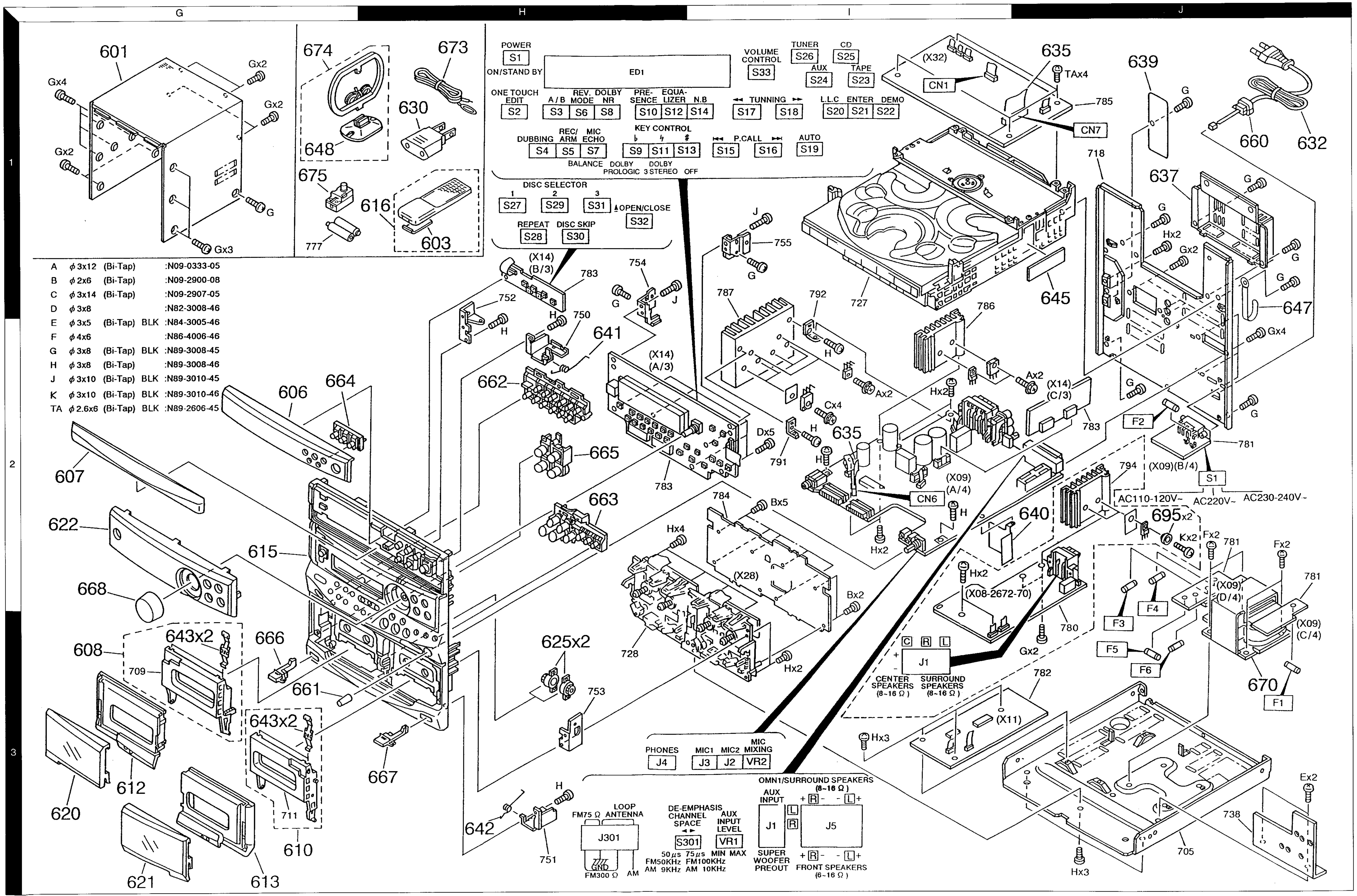
● POINT WHICH SHOULD BE GREASED
Dow corning
❶ Grease (EM-50L):410-0014-05

B310

Parts with the exploded numbers larger than 700 are not supplied.

RXD-F3/F4/F41/F42　RXD-F3/F4/F41/F42

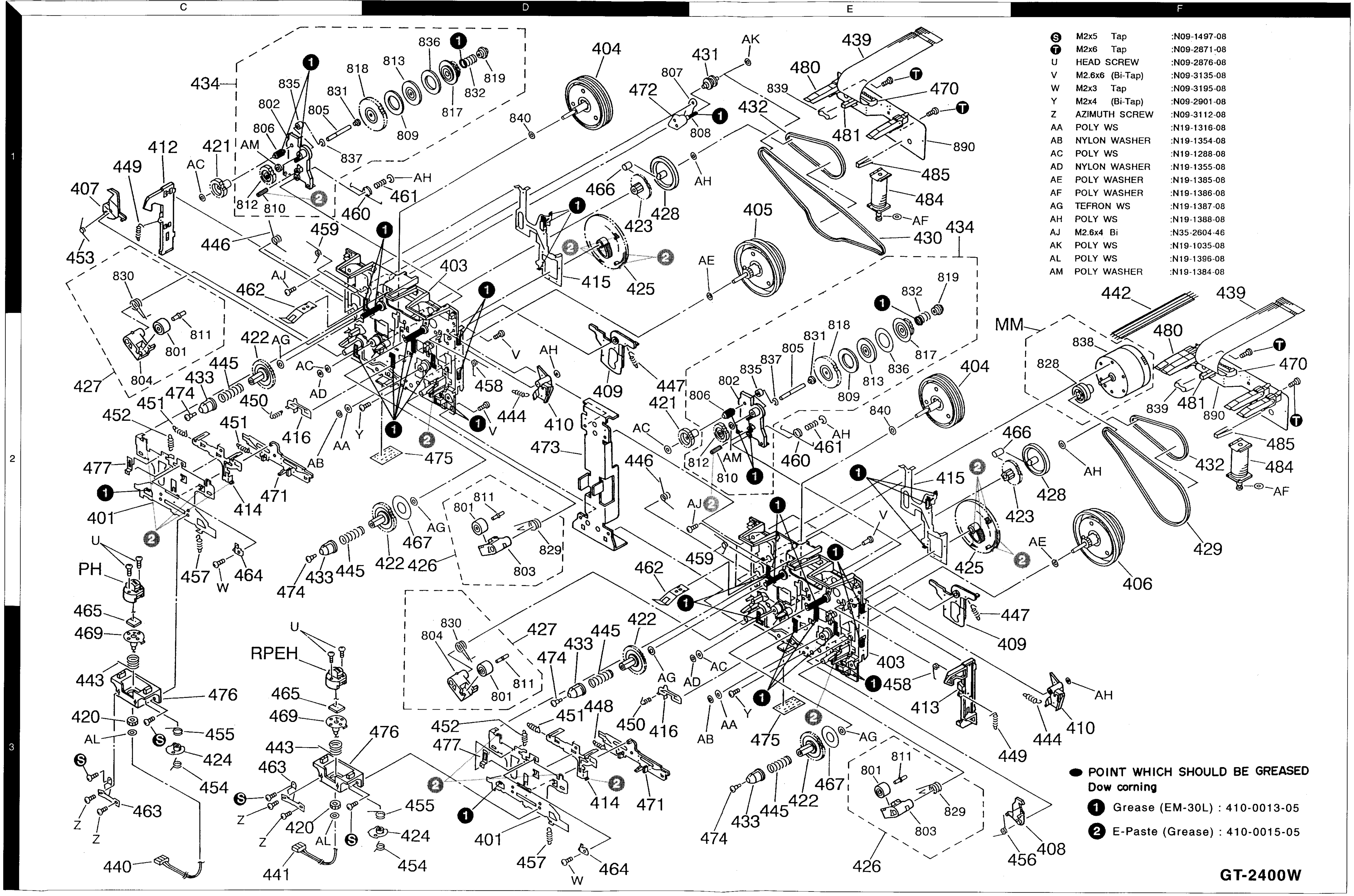
EXPLODED VIEW(UNIT)


G
H
I
J
1
2
3
601
Gx2
Gx4
Gx2
Gx2
G
Gx3
674
673
630
648
675
616
603
777
POWER
S1
ON/STAND BY
ED1
VOLUME
CONTROL
S33
TUNER
S26
CD
S25
AUX
S24
TAPE
S23
ONE TOUCH
EDIT
S2
A / B
S3
REV.
MODE
S6
DOLBY
NR
S8
PRE-
SENCE
S10
EQUA-
LIZER
S12
N.B
S14
◄◄ TUNNING ►►
S17
S18
L.L.C
S20
ENTER
S21
DEMO
S22
DUBBING
S4
REC/
ARM
S5
MIC
ECHO
S7
KEY CONTROL
♭
S9
♮
S11
♯
S13
P.CALL
S15
S16
AUTO
S19
BALANCE
DOLBY
PROLOGIC
DOLBY
3 STEREO
OFF
DISC SELECTOR
1
S27
2
S29
3
S31
▲OPEN/CLOSE
S32
REPEAT
S28
DISC SKIP
S30
(X32)
CN1
635
TAx4
785
CN7
639
G
660
632
718
637
G
G
Hx2
Gx2
G
G
647
Gx4
G
727
645
786
J
755
G
787
792
H
Ax2
Ax2
Hx2
(X14)
(C/3)
783
F2
781
(X14)
(B/3)
783
752
H
754
G
J
750
H
641
(X14)
(A/3)
662
665
663
783
Dx5
791
H
635
H
Cx4
(X09)
(A/4)
CN6
H
794
(X09)(B/4)
S1
AC110-120V~
AC220V~
AC230-240V~
640
695x2
Kx2
Fx2
781
Fx2
781
784
Bx5
Hx4
(X28)
Bx2
Hx2
728
Hx2
Hx2
(X08-2672-70)
780
Gx2
(X09)
(D/4)
(X09)
(C/4)
F3
F4
F5
F6
670
F1
C R L
J1
CENTER
SPEAKERS
(8~16 Ω)
SURROUND
SPEAKERS
(8~16 Ω)
782
(X11)
Hx3
606
664
607
622
615
668
608
643x2
709
666
661
643x2
711
610
612
620
621
613
667
625x2
753
642
H
751
PHONES
J4
MIC1
J3
MIC2
J2
MIC
MIXING
VR2
FM75 Ω
LOOP
ANTENNA
J301
GND
FM300 Ω
AM
DE-EMPHASIS
CHANNEL
SPACE
◄ ►
S301
50μs 75μs
FM50KHz FM100KHz
AM 9KHz AM 10KHz
AUX
INPUT
LEVEL
VR1
MIN MAX
OMN1/SURROUND SPEAKERS
(8~16 Ω)
AUX
INPUT
J1
L
R
+ R - - L +
J5
SUPER
WOOFER
PREOUT
+ R - - L +
FRONT SPEAKERS
(6~16 Ω)
Ex2
738
705
Hx3

A	φ3x12	(Bi-Tap)		:N09-0333-05
B	φ2x6	(Bi-Tap)		:N09-2900-08
C	φ3x14	(Bi-Tap)		:N09-2907-05
D	φ3x8			:N82-3008-46
E	φ3x5	(Bi-Tap)	BLK	:N84-3005-46
F	φ4x6			:N86-4006-46
G	φ3x8	(Bi-Tap)	BLK	:N89-3008-45
H	φ3x8	(Bi-Tap)		:N89-3008-46
J	φ3x10	(Bi-Tap)	BLK	:N89-3010-45
K	φ3x10	(Bi-Tap)	BLK	:N89-3010-46
TA	φ2.6x6	(Bi-Tap)	BLK	:N89-2606-45

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW(CASSETTE DECK MECHANISM)


C
D
E
F
1
2
3
434
835
802
806
AM
818
813
836
819
832
817
831
805
809
837
812
810
807
431
AK
439
480
839
470
472
808
432
481
890
404
840
466
423
428
AH
461
460
459
446
485
484
AF
430
405
AE
415
425
403
412
421
449
AC
407
453
462
AJ
830
811
801
804
427
422
AG
AD
445
433
474
451
450
452
416
AA
Y
AB
V
458
444
410
409
447
473
475
477
414
471
401
U
PH
457
464
W
467
426
829
803
465
469
443
476
420
AL
455
424
454
463
Z
440
RPEH
441
448
442
MM
838
828
429
406
413
456
408

Ⓢ	M2x5 Tap	:N09-1497-08
Ⓣ	M2x6 Tap	:N09-2871-08
U	HEAD SCREW	:N09-2876-08
V	M2.6x6 (Bi-Tap)	:N09-3135-08
W	M2x3 Tap	:N09-3195-08
Y	M2x4 (Bi-Tap)	:N09-2901-08
Z	AZIMUTH SCREW	:N09-3112-08
AA	POLY WS	:N19-1316-08
AB	NYLON WASHER	:N19-1354-08
AC	POLY WS	:N19-1288-08
AD	NYLON WASHER	:N19-1355-08
AE	POLY WASHER	:N19-1385-08
AF	POLY WASHER	:N19-1386-08
AG	TEFRON WS	:N19-1387-08
AH	POLY WS	:N19-1388-08
AJ	M2.6x4 Bi	:N35-2604-46
AK	POLY WS	:N19-1035-08
AL	POLY WS	:N19-1396-08
AM	POLY WASHER	:N19-1384-08

● **POINT WHICH SHOULD BE GREASED**
Dow corning
❶ Grease (EM-30L) : 410-0013-05
❷ E-Paste (Grease) : 410-0015-05

GT-2400W

Parts with the exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

NO. 1

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
				RXD-F3/L		
601	1G	✻	A01-3231-01	METALLIC CABINET		
603	1H		A09-0170-08	BATTERY COVER		
606	2G	✻	A21-1870-32	DRESSING PANEL (CD)		1
606	2G	✻	A21-1871-22	DRESSING PANEL (CD)		H
607	2G	✻	A29-0397-02	PANEL (CD TRAY)		
608	3G		A53-1468-03	CASSETTE HOLDER ASSY(A DECK)		1
608	3G		A53-1837-13	CASSETTE HOLDER ASSY(A DECK)		H
610	3G		A53-1470-03	CASSETTE HOLDER ASSY(B DECK)		1
610	3G		A53-1839-13	CASSETTE HOLDER ASSY(B DECK)		H
612	3G	✻	A53-1862-02	CASSETTE LID (A DECK)		1
612	3G	✻	A53-1869-02	CASSETTE LID (A DECK)		H
613	3G	✻	A53-1864-02	CASSETTE LID (B DECK)		1
613	3	✻	A53-1873-02	CASSETTE LID (B DECK)		H
615	2G	✻	A60-0730-11	PANEL	M	1
615	2G	✻	A60-0732-11	PANEL	KRPXTE	1
615	2G	✻	A60-0732-11	PANEL	G	1
615	2G	✻	A60-0742-11	PANEL	M	H
615	2G	✻	A60-0743-11	PANEL	KRPXTE	H
615	2G	✻	A60-0743-11	PANEL	G	H
616	1H	✻	A70-1020-05	REMOTE CONTROLLER ASSY(RC-F3)		
620	3G	✻	B10-2100-13	FRONT GLASS (A DECK)		1
620	3G	✻	B10-2111-13	FRONT GLASS (A DECK)		H
621	3G	✻	B10-2101-13	FRONT GLASS (B DECK)		1
621	3G	✻	B10-2112-13	FRONT GLASS (B DECK)		H
622	2G	✻	B10-2107-02	FRONT GLASS (RECEIVER)	MI	1
622	2G	✻	B10-2109-12	FRONT GLASS (RECEIVER)	KRPXEG	1
622	2G	✻	B10-2110-12	FRONT GLASS (RECEIVER)	T	1
622	2G	✻	B10-2114-02	FRONT GLASS (RECEIVER)	M	H
622	2G	✻	B10-2115-12	FRONT GLASS (RECEIVER)	KRPXEG	H
622	2G	✻	B10-2116-12	FRONT GLASS (RECEIVER)	T	H
			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-		✻	B46-0307-23	WARRANTY CARD	K	
-			B46-0310-03	WARRANTY CARD	TEG	
-		✻	B46-0319-00	QUESTIONAIRE CARD	T	
-			B58-0964-13	CAUTION CARD (UL)	KR	
-		✻	B58-0965-13	CAUTION CARD (PL)	XT	
-		✻	B58-0966-13	CAUTION CARD (PL)	MEI	
-		✻	B58-0967-03	CAUTION CARD (PL)	P	
-		✻	B58-0970-13	CAUTION CARD (R,G TYPE PL)	RG	
-		✻	B60-2170-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		✻	B60-2171-00	INSTRUCTION MANUAL(ENGLISH)	KRP	
-		✻	B60-2172-00	INSTRUCTION MANUAL(FRENCH)	PE	
-		✻	B60-2173-00	INSTRUCTION MANUAL(GERMANY)	EG	
-		✻	B60-2174-00	INSTRUCTION MANUAL(DENT)	E	
		✻	B60-2175-00	INSTRUCTION MANUAL(ITALY)	E	
-		✻	B60-2176-00	INSTRUCTION MANUAL(SPANISH)	RE	
-		✻	B60-2177-10	INSTRUCTION MANUAL(CHINESES)	MI	
-		✻	B60-2178-10	INSTRUCTION MANUAL(TIWAN)	M	
-		✻	B60-2255-00	INSTRUCTION MANUAL(ENGLISH)	MXI	
-		✻	B60-2256-00	INSTRUCTION MANUAL(SPANISH)	M	
625	3H	✻	D39-0322-05	DAMPER		

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✻ New Parts
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NO. 2

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
⚠ 630	1H		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 632	1J		E30-2787-05	AC POWER CORD	KRP	
⚠ 632	1J		E30-2788-05	AC POWER CORD	MEGI	
⚠ 632	1J		E30-2790-05	AC POWER CORD	T	
⚠ 632	1J		E30-2791-05	AC POWER CORD	T	
635	2I,1J	✻	E35-1174-05	FLAT CABLE		
637	1J	✻	F07-0757-03	COVER		
639	1J	✻	F20-1432-04	INSULATING SHEET		
-		✻	F10-0980-13	SHIELDING PLATE	TEG	
641	2H	✻	G01-3810-24	TORSION COIL SPRING		
642	3H	✻	G01-3811-24	TORSION COIL SPRING		
643	3G		G02-1057-14	FLAT SPRING		
645	1J	✻	G11-2239-14	CUSHION	KRP	
-		✻	H10-7047-12	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7048-12	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	KRPMXE	
-			H25-0632-24	PROTECTION BAG	GI	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-			H25-1509-04	PROTECTION BAG	MI	
-			H25-1536-04	PROTECTION BAG	KRPXTE	
-			H25-1536-04	PROTECTION BAG	G	
-		✻	H50-1487-04	ITEM CARTON CASE	KPX	W
-		✻	H50-1488-04	ITEM CARTON CASE	M	W
-		✻	H50-1489-04	ITEM CARTON CASE	T	W
-		✻	H50-1490-04	ITEM CARTON CASE	REG	W
-		✻	H50-1491-04	ITEM CARTON CASE	KP	H
-		✻	H50-1492-04	ITEM CARTON CASE	MX	H
-		✻	H50-1493-04	ITEM CARTON CASE	REG	H
-		✻	H50-1569-04	ITEM CARTON CASE	KPX	S
-		✻	H50-1570-04	ITEM CARTON CASE	M	S
-		✻	H50-1571-04	ITEM CARTON CASE	T	S
-		✻	H50-1572-04	ITEM CARTON CASE	REG	S
-		✻	H50-1652-04	ITEM CARTON CASE	I	W
647	1J		J19-2808-05	HOLDER	MI	
648	1G		J19-3645-05	AM ANTENNA HOLDER		
⚠ 660	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND	MI	
661	3G		K29-6033-04	KNOB (MIC MIXING)		
662	2H	✻	K29-6135-02	KNOB (DUBB,REC,ARM)		1
662	2H	✻	K29-6138-02	KNOB (DUBB,REC,ARM)		H
663	2H	✻	K29-6121-12	KNOB (TUNING,P.CALL)		1
663	2H	✻	K29-6139-12	KNOB (TUNING,P.CALL)		H
664	1J	✻	K29-6122-13	KNOB (DISC SELECTOR)		1
664	2G	✻	K29-6140-13	KNOB (DISC SELECTOR)		H
665	2H	✻	K29-6123-13	KNOB (INPUT SELECTOR)		1
665	2H	✻	K29-6141-13	KNOB (INPUT SELECTOR)		H
666	3G	✻	K29-6124-14	KNOB (EJECT A)		1
666	3G	✻	K29-6142-14	KNOB (EJECT A)		H
667	3G	✻	K29-6125-14	KNOB (EJECT B)		1
667	3G	✻	K29-6143-14	KNOB (EJECT B)		H
668	2G	✻	K29-6149-14	KNOB (VOLUME CONTROL)		

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NO. 3

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ 670	3J	⁎	L07-1924-05	POWER TRANSFORMER	KRP	
⚠ 670	3J	⁎	L07-1925-05	POWER TRANSFORMER	TEG	
⚠ 670	3J	⁎	L07-1926-05	POWER TRANSFORMER	X	
⚠ 670	3J	⁎	L07-1928-05	POWER TRANSFORMER	MI	
B			N09-2900-08	BINDING HEAD TAPTITE SCREW		
673	1H		T90-0182-15	LEAD WIRE ANTENNA		
673	1H		T90-0801-05	LEAD WIRE ANTENNA		
674	1G		T90-0195-05	LOOP ANTENNA		
675	1G		T90-0198-05	ANTENNA ADAPTOR	TEG	

RXD-F4/L

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
601	1G	⁎	A01-3229-11	METALLIC CABINET		
603	1H		A09-0170-08	BATTERY COVER		
606	2G	⁎	A21-1870-32	DRESSING PANEL (CD)		1
607	2G	⁎	A29-0397-02	PANEL (CD TRAY)		
608	3G		A53-1468-03	CASSETTE HOLDER ASSY (A DECK)		1
610	3G		A53-1470-03	CASSETTE HOLDER ASSY (B DECK)		1
612	3G	⁎	A53-1862-02	CASSETTE LID (A DECK)		1
613	3G	⁎	A53-1864-02	CASSETTE LID (B DECK)		1
615	2G	⁎	A60-0728-21	PANEL		1
616	1H	⁎	A70-1018-05	REMOTECONTROLLER ASSY(RC-F4)		
620	3G	⁎	B10-2100-13	FRONT GLASS (A DECK)		1
621	3G	⁎	B10-2101-13	FRONT GLASS (B DECK)		1
622	2G	⁎	B10-2106-02	FRONT GLASS (RECEIVER)	KRPYMT	1
622	2G	⁎	B10-2106-02	FRONT GLASS (RECEIVER)	EG	1
622	2G	⁎	B10-2108-02	FRONT GLASS (RECEIVER)	T	1
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-		⁎	B46-0307-23	WARRANTY CARD	KY	
-			B46-0310-03	WARRANTY CARD	TEG	
-		⁎	B46-0319-00	QUESTIONAIRE CARD	T	
-		⁎	B58-0964-13	CAUTION CARD (UL)	KRY	
-		⁎	B58-0965-13	CAUTION CARD (PL)	XT	
-		⁎	B58-0966-13	CAUTION CARD (PL)	ME	
-		⁎	B58-0967-03	CAUTION CARD (PL)	P	
-		⁎	B58-0968-04	CAUTION CARD	Y	
-		⁎	B58-0970-13	CAUTION CARD (PL)	RG	
-		⁎	B59-1104-00	SERVICE DIRECTORY	Y	
-		⁎	B60-2145-00	INSTRUCTION MANUAL (ENGLISH)	KT	
-		⁎	B60-2146-00	INSTRUCTION MANUAL (FRENCH)	E	
-		⁎	B60-2147-00	INSTRUCTION MANUAL (GERMAN)	EG	
-		⁎	B60-2148-00	INSTRUCTION MANUAL (DUTCH)	E	
-		⁎	B60-2149-00	INSTRUCTION MANUAL (ITALAN)	E	
-		⁎	B60-2151-00	INSTRUCTION MANUAL (SPANISH)	E	
-		⁎	B60-2251-00	INSTRUCTION MANUAL (ENGLISH)	YMX	
-		⁎	B60-2252-00	INSTRUCTION MANUAL (SPANISH)	M	
-		⁎	B60-2334-00	INSTRUCTION MANUAL (ENGLISH)	KRP	
-		⁎	B60-2335-00	INSTRUCTION MANUAL (FRENCH)	P	
-		⁎	B60-2336-00	INSTRUCTION MANUAL (SPANISH)	R	
625	3H	⁎	D39-0321-05	DAMPER		
⚠ 630	1H		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 632	1J		E30-2592-15	AC POWER CORD	MEG	
⚠ 632	1J		E30-2605-05	AC POWER CORD	Y	
⚠ 632	1J		E30-2650-05	AC POWER CORD	KRP	

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NO. 4

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ 632	1J		E30-2717-05	AC POWER CORD	X	
⚠ 632	1J		E30-2721-05	AC POWER CORD	T	
635	1J,2	⁎	E35-1129-05	FLAT CABLE		
637	1J	⁎	F07-0757-03	COVER		
639	1J	⁎	F20-1431-04	INSULATING SHEET		
640		⁎	F20-1448-03	INSULATING SHEET		
641	2H	⁎	G01-3810-24	TORSION COIL SPRING (A DECK)		
642	3H	⁎	G01-3811-24	TORSION COIL SPRING (B DECK)		
643	3G		G02-1040-04	FLAT SPRING		
645	1J	⁎	G11-2241-14	CUSHION	KRPY	
-		⁎	H10-7017-12	POLYSTYRENE FOAMED FIXTURE		
-		⁎	H10-7018-12	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	KRPYMX	
-			H25-0632-24	PROTECTION BAG	EG	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-			H25-1509-04	PROTECTION BAG	M	
-			H25-1536-04	PROTECTION BAG	KRPYXT	
-			H25-1536-04	PROTECTION BAG	EG	
-		⁎	H50-1496-04	ITEM CARTON CASE	REG	W
-		⁎	H50-1497-04	ITEM CARTON CASE	T	W
-		⁎	H50-1500-04	ITEM CARTON CASE	KPYX	W
-		⁎	H50-1548-04	ITEM CARTON CASE	M	
-		⁎	H50-1563-04	ITEM CARTON CASE	REG	S
-		⁎	H50-1564-04	ITEM CARTON CASE	T	S
-		⁎	H50-1566-04	ITEM CARTON CASE	KPYX	S
647	1J		J19-2808-05	HOLDER	M	
648	1G		J19-3645-05	AM LOOP ANNTENA STAND		
⚠ 660	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
661	3G		K29-6033-04	KNOB (MIC MIXING)		
662	2H	⁎	K29-6120-02	KNOB (DUBB.,REC,ARM)		1
663	2H	⁎	K29-6121-12	KNOB (TUNIG,P.COLL)		1
664	2G	⁎	K29-6122-13	KNOB (DISC SELECTOR)		1
665	2H	⁎	K29-6123-13	KNOB (INPUT SELECTOR)		1
666	3G	⁎	K29-6124-14	KNOB (EJECT A)		1
667	3G	⁎	K29-6125-14	KNOB (EJECT B)		1
668	2G	⁎	K29-6149-14	KNOB (VOLUME CONTROL)		
⚠ 670	3J	⁎	L07-1929-05	POWER TRANSFORMER	TEG	
⚠ 670	3J	⁎	L07-1930-05	POWER TRANSFORMER	X	
⚠ 670	3J	⁎	L07-1954-05	POWER TRANSFORMER	YM	
⚠ 670	3J	⁎	L07-2014-05	POWER TRANSFORMER	KRP	
B			N09-2900-08	BINDING HEAD TAPTITE SCRE		W
673	1H		T90-0182-15	LEAD WIRE ANTENNA		
673	1H		T90-0801-05	LEAD WIRE ANTENNA		
674	1G		T90-0195-05	LOOP ANTENNA		
675	1G		T90-0198-05	ANTENNA ADAPTOR	TEG	

RXD-41

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
601	1G	⁎	A01-3231-01	METALLIC CABINET		
606	2G	⁎	A21-1870-32	DRESSING PANEL (CD)		1
606	2G	⁎	A21-1871-22	DRESSING PANEL (CD)		H
607	2G	⁎	A29-0397-02	PANEL (CD TRAY)		

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NO. 5

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
608	3G		A53-1468-03	CASSETTE HOLDER ASSY (A DECK)		1
608	3G		A53-1837-13	CASSETTE HOLDER ASSY (A DECK)		H
610	3G	*	A53-1470-13	CASSETTE HOLDER ASSY (B DECK)		1
610	3G		A53-1839-13	CASSETTE HOLDER ASSY (B DECK)		H
612	3G	*	A53-1862-02	CASSETTE LID (A DECK)		1
612	3G	*	A53-1869-02	CASSETTE LID (A DECK)		H
613	3G	*	A53-1864-02	CASSETTE LID (B DECK)		1
613	3G	*	A53-1873-02	CASSETTE LID (B DECK)		H
615	2G	*	A60-0732-11	PANEL		1
615	2G	*	A60-0743-11	PANEL		H
616	1H	*	A70-1020-05	REMOTE CONTROLLER ASSY(RC-F3)		
620	3G	*	B10-2100-13	FRONT GLASS (A DECK)		1
620	3G	*	B10-2111-13	FRONT GLASS (A DECK)		H
621	3G	*	B10-2101-13	FRONT GLASS (B DECK)		1
621	3G	*	B10-2112-13	FRONT GLASS (B DECK)		H
622	2G	*	B10-2117-22	FRONT GLASS (RECEIVER)		H
622	2G	*	B10-2139-22	FRONT GLASS (RECEIVER)		1
-			B46-0121-33	WARRANTY CARD	P	
-		*	B46-0307-23	WARRANTY CARD	K	
-			B58-0964-13	CAUTION CARD (UL)	KR	
-		*	B58-0967-03	CAUTION CARD (PL)	P	
-		*	B58-0970-13	CAUTION CARD (PL)	R	
-		*	B60-2179-00	INSTRUCTION MANUAL (ENGLISH)	KRP	
-		*	B60-2180-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-2181-00	INSTRUCTION MANUAL (SPANISH)	R	
625	3H	*	D39-0322-05	DAMPER		
⚠ 632	1J		E30-2787-05	AC POWER CORD		
635	1J,2I	*	E35-1174-05	FLAT CABLE		
637	1J	*	F07-0757-03	COVER		
639	1J	*	F20-1432-04	INSULATING SHEET		
641	2H	*	G01-3810-24	TORSION COIL SPRING		
642	3H	*	G01-3811-24	TORSION COIL SPRING		
643	3G			G02-1057-14 FLAT SPRING		
645	1J	*	G11-2239-14	CUSHION		
-		*	H10-7047-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7048-12	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-			H25-1536-04	PROTECTION BAG		
-		*	H50-1549-04	ITEM CARTON CASE		H
-		*	H50-1561-04	ITEM CARTON CASE		W
-		*	H50-1568-04	ITEM CARTON CASE		S
648	1G		J19-3645-05	AM LOOP ANNTENA STAND		
⚠ 660	1J		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
661	3G		K29-6033-04	KNOB (MIC MIXING)		
662	2H	*	K29-6135-02	KNOB (DUBB.,REC,ARM)		1
662	2H	*	K29-6138-02	KNOB (DUBB.,REC,ARM)		H
663	2H	*	K29-6121-12	KNOB (TUNING,P.CALL)		1
663	2H	*	K29-6139-12	KNOB (TUNING,P.CALL)		H
664	2G	*	K29-6122-13	KNOB (DISC SELECTOR)		1

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NO. 6

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
664	2G	*	K29-6140-13	KNOB (DISC SELECTOR)		H
665	2H	*	K29-6123-13	KNOB (INPUT SELECTOR)		1
665	2H	*	K29-6141-13	KNOB (INPUT SELECTOR)		H
666	3G	*	K29-6124-14	KNOB (EJECT A)		1
666	3G	*	K29-6142-14	KNOB (EJECT A)		H
667	3H	*	K29-6125-14	KNOB (EJECT B)		1
667	3H	*	K29-6143-14	KNOB (EJECT B)		H
668	2G	*	K29-6149-14	KNOB (VOLUME CONTROL)		
⚠ 670	3J	*	L07-1944-05	POWER TRANSFORMER		
B			N09-2900-08	BINDING HEAD TAPTITE SCREW		
673	1H		T90-0801-05	LEAD WIRE ANTENNA		
674	1G		T90-0195-05	LOOP ANTENNA		
				RXD-F42		
601	1G	*	A01-3229-11	METALLIC CABINET		
603	1H		A09-0170-08	BATTERY COVER		
606	2G	*	A21-1870-32	DRESSING PANEL (CD)		1
607	2G	*	A29-0395-12	PANEL (CD TRAY)		
608	3G		A53-1468-03	CASSETTE HOLDER ASSY (A DECK)		1
610	3G		A53-1470-03	CASSETTE HOLDER ASSY (B DECK)		1
612	3G	*	A53-1862-02	CASSETTE LID(A DECK)		1
613	3G	*	A53-1864-02	CASSETTE LID(B DECK)		1
615	2G	*	A60-0720-21	PANEL		1
616	1H	*	A70-1020-05	REMOTE CONTROLLER ASSY(RC-F3)		
620	3G	*	B10-2100-13	FRONT GLASS (A DECK)		1
621	3G	*	B10-2101-13	FRONT GLASS (B DECK)		1
622	2G	*	B10-2102-12	FRONT GLASS (RECEIVER)		1
-		*	B58-0966-13	CAUTION CARD (ELM)		
-		*	B60-2144-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-2152-10	INSTRUCTION MANUAL(CHINESE)		
-		*	B60-2153-10	INSTRUCTION MANUAL (TAIWANESE)	M	
625	3H	*	D39-0321-05	DAMPER		
⚠ 630	1H		E03-0115-05	AC PLUG ADAPTER		
⚠ 632	1J		E30-2592-15	AC POWER CORD		
635	1J,2I	*	E35-1129-05	FLAT CABLE (33PIN)		
637	1J	*	F07-0757-03	COVER		
639	1J	*	F20-1431-04	INSULATING SHEET		
640	2J	*	F20-1448-03	INSULATING SHEET		
641	2H	*	G01-3766-24	TORSION COIL SPRING		
642	3H	*	G01-3767-24	TORSION COIL SPRING		
643	3G		G02-1040-04	FLAT SPRING		
-		*	H10-7017-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7018-12	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-				H25-1509-04 PROTECTION BAG		
-		*	H50-1495-04	ITEM CARTON CASE	M	
-		*	H50-1651-04	ITEM CARTON CASE	I	
647	1J		J19-2808-05	HOLDER		
648	1G		J19-3645-05	AM LOOP ANNTENA STAND		
⚠ 660	1J		J42-0083-05	POWER CORD BUSHING		

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1: SINGAPORE,MALAYSIA made common
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NO. 7

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-			J61-0307-05	WIRE BAND		
661	3G			K29-6033-04 KNOB (MIC MIXING)		
662	2H	∗	K29-6120-02	KNOB (DUBB.,REC,ARM)		1
663	2H	∗	K29-6121-12	KNOB (TUNING,P.CALL)		1
664	2G	∗	K29-6122-13	KNOB (DISC SELECTOR)		1
665	2H	∗	K29-6123-13	KNOB (INPUT SELECTOR)		1
666	3G	∗	K29-6124-14	KNOB (EJECT A)		1
667	3H	∗	K29-6125-14	KNOB (EJECT B)		1
668	2G	∗	K29-6149-14	KNOB (VOLUME CONTROL)		
⚠ 670	3J	∗	L07-1932-05	POWER TRANSFORMER		
B			N09-2900-08	BINDING HEAD TAPTITE SCREW		
673	1H		T90-0182-15	LEAD WIRE ANTENNA		
673	1H		T90-0801-05	LEAD WIRE ANTENNA		
674	1G		T90-0195-05	LOOP ANTENNA		
SURROUND UNIT (X08-267X-XX): RXD-F4/F4L/F42						
C1 ,2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3 ,4			CE04LW1V100M	ELECTRO 10UF 35WV		
C5			CF92FV1H394J	MF-C 0.39UF J		
C7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C9 ,10			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C13 ,14			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C15 ,16			CC45FSL1H470J	CERAMIC 47PF J		
C19 ,20			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C21 ,22			CK45FB1H102K	CERAMIC 1000PF K		
C23 ,24			CE04LW1V220M	ELECTRO 22UF 35WV		
C25 ,26			CK45FB1H222K	CERAMIC 2200PF K		
C27			CQ93FMG1H104J	MYLAR 0.10UF J	YMXTEG	
C28			CE04LW1E471M	ELECTRO 470UF 25WV		
C31 ,32			CQ93FMG1H104J	MYLAR 0.10UF J		
C35 ,36			CK45FF1H472Z	CERAMIC 4700PF Z	KRP	
C35 ,36			CQ93FMG1H822J	MYLAR 8200PF J	YMXTEG	
C37			CQ93FMG1H104J	MYLAR 0.10UF J		
C38			CE04LW1C221M	ELECTRO 220UF 16WV		
C39			CQ93FMG1H333J	MYLAR 0.033UF J		
C40			CQ93FMG1H152J	MYLAR 1500PF J		
C41			CQ93FMG1H333J	MYLAR 0.033UF J		
C42			CE04LW1C221M	ELECTRO 220UF 16WV		
C43			CK45FF1H103Z	CERAMIC 0.010UF Z		
C44			CE04LW1V100M	ELECTRO 10UF 35WV		
C45			CQ93FMG1H103J	MYLAR 0.010UF J		
C46 -48			CC45FSL1H101J	CERAMIC 100PF J		
C49			CQ93FMG1H681J	MYLAR 680PF J		
C50			CF92FV1H474J	MF-C 0.47U J		
C51			CE04LW1C470M	ELECTRO 47UF 16WV		
C52 ,53			CQ93FMG1H104J	MYLAR 0.10UF J		
C54			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C55			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C56			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C57			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C58			CF92FV1H154J	MF-C 0.15UF J		
C59			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		

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NO. 8

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C60 ,61			CF92FV1H154J	MF-C 0.15UF J		
C62			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C63			CF92FV1H154J	MF-C 0.15UF J		
C64			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C65			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C66			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C67			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C68 ,69			CQ93FMG1H104J	MYLAR 0.10UF J		
C70			CE04LW1C221M	ELECTRO 220UF 16WV		
C71 -74			CE04LW1V100M	ELECTRO 10UF 35WV		
C75			CE04LW1C221M	ELECTRO 220UF 16WV		
C76			CQ93FMG1H473J	MYLAR 0.047UF J		
C77			CQ93FMG1H223J	MYLAR 0.022UF J		
C78			CE04KW1E472M	ELECTRO 4700UF 25WV		
C79			CE04LW1E332M	ELECTRO 3300UF 25WV		
C80			CF92FV1H105J	MF-C 1.0UF J		
C81			CE04LW1V100M	ELECTRO 10UF 35WV		
C83			CE04LW1C101M	ELECTRO 100UF 16WV		
C84 ,85			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C94 ,95			CC45FSL1H101J	CERAMIC 100PF J		
C96			CE04LW1C220M	ELECTRO 22UF 16WV		
C97 -100			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C101			CE04LW1C470M	ELECTRO 47UF 16WV		
C102			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C103,104			CK45FF1H103Z	CERAMIC 0.010UF Z		
C105,106			CE04LW1C470M	ELECTRO 47UF16W V		
C107			CK45FF1H103Z	CERAMIC 0.010UF Z		
J1			E70-0046-05	LOCK TERMINAL BOARD		
		∗	F01-2098-03	HEAT SINK	YMXTEG	
		∗	F01-2111-03	HEAT SINK	KRP	
			F20-1339-05	INSULATING BOARD		
			F29-0112-05	INSULATING WASHER		
⚠ F8 ,9			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	YMXTEG	
⚠ F8 ,9			F06-2525-05	FUSE (UL) (250V 2.5A)	KRP	
CN3 -6			J13-0075-05	FUSE CLIP		
X1			L78-0290-05	RESONATOR (8MHz)		
⚠ R8			RD14NB2E2R2J	RD 2.2 J 1/4W		
R9			RN14BK2C3902F	RN 39.0K F 1/6W		
R33 ,34			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W		
⚠ R46			RD14NB2E470J	RD 47 J 1/4W		
⚠ R55			RD14NB2E182J	RD 1.8K J 1/4W		
⚠ K2			S51-2094-05	MAGNETIC RELAY	KRP	
⚠ K2			S76-0008-05	MAGNETIC RELAY	YMXTEG	
D1			HZS10N(B)	ZENER DIODE		
D1			RD10ES(B)	ZENER DIODE		
D3 ,4			HSS104A	DIODE		
D3 ,4			1SS131	DIODE		
⚠ D5			D3SBA20F03	DIODE	KRP	
⚠ D5			KBP02ML-6127	DIODE	YMXTEG	
⚠ D5			RBV-402LFA	DIODE	KRP	
D6			HZS3.9N(B2)	ZENER DIODE		

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NO. 9

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D6			RD3.9ES(B2)	ZENER DIODE		
D6			UZ-3.9BSB	ZENER DIODE		
D7			HZS6.2N(B2)	ZENER DIODE		
D7			RD6.2ES(B2)	ZENER DIODE		
D7			UZ-6.2BSB	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS131	DIODE		
IC1			LA2785	IC(DOLBY PRO LOGIC DECODER IC)		
IC2			LV1011	DI BI-POLAR IC		
IC3			NJM4565L-D	IC(OP AMP X2)		
IC4		*	TDA7315	ANALOGUE IC		
⚠ IC5 ,6		*	TDA2040V	ANALOGUE IC	YMXTEG	
⚠ IC5 ,6			TDA2050V	ANALOGUE IC		
IC7			XRU4052BC	MOS-IC		
Q1 ,2			2SC2878(B)	TRANSISTOR		
⚠ Q4			2SD2012	TRANSISTOR		
⚠ Q4			2SD2061	TRANSISTOR		
Q5			2SC2003(L,K)	TRANSISTOR		
Q6			DTA113ZS	DIGITAL TRANSISTOR		
Q6			UN4119	TRANSISTOR		

AUDIO UNIT- TUNER (X09) : K. R. P. Y. M. X type

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q7			DTC124ES	DIGITAL TRANSISTOR		
Q7			UN4212	TRANSISTOR		
C301,302			CK73FB1H103K	CHIP C 0.010UF K		
C304			CE04LW1A470M	ELECTRO 47UF 10WV		
C305			CK73FB1H103K	CHIP C 0.010UF K		
C308			CK73FB1H103K	CHIP C 0.010UF K		
C310			CC73FSL1H102J	CHIP C 1000PF J		
C311			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C313			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C314			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C321,322			CQ93FMG1H163J	MYLAR 0.016UF J	MX	3
C321,322			CQ93FMG1H163J	MYLAR 0.016UF J	YMX	4
C321,322			CQ93FMG1H163J	MYLAR 0.016UF J	M	2
C321,322			CQ93FMG1H243J	MYLAR 0.024UF J	KRP	3
C321,322			CQ93FMG1H243J	MYLAR 0.024UF J	KRP	4
C321,322			CQ93FMG1H243J	MYLAR 0.024UF J	KRP	1
C323			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C324			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C325			CE04LW1V100M	ELECTRO 10UF 35WV		
C327			CK73FB1E473K	CHIP C 0.047UF K		
C328			CE04LW1V100M	ELECTRO 10UF 35WV		
C331			CE04LW1A470M	ELECTRO 47UF 10WV		
C332			CK45FF1H103Z	CERAMIC 0.010UF Z		
C333			CC73FCH1H270J	CHIP C 27PF J		
C334			CC73FCH1H220J	CHIP C 22PF J		
C335-338			CK73FB1H471K	CHIP C 470PF K		
C339			CE04LW1C470M	ELECTRO 47UF 16WV		
C340			CK73FB1H223K	CHIP C 0.022UF K		
C341			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C342,343			CK73FB1H103K	CHIP C 0.010UF K		
C350			C91-0769-05	CERAMIC 0.010UF K		
C351			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C352			CE04LW1C470M	ELECTRO 47UF 16WV		

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NO. 10

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C355			CK73FB1E104K	CHIP C 0.10UF K		
C357			CC73FSL1H220J	CHIP C 22PF J		
C361			CK73FB1H103K	CHIP C 0.010UF K		
C362			CE04LW1C101M	ELECTRO 100UF 16WV		
C365			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C366			CC73FSL1H102J	CHIP C 1000PF J		
C371			CE04LW1V100M	ELECTRO 10UF 35WV		
C372			CE04LW1C470M	ELECTRO 47UF 16WV		
C403-406			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C407			CK73FB1E473K	CHIP C 0.047UF K		
C412			CC73FSL1H101J	CHIP C 100PF J		
C414			CK73FB1H681K	CHIP C 680PF K		
C417			CK73FB1H681K	CHIP C 680PF K		
C418			CK73FB1H103K	CHIP C 0.010UF K		
C419			CC73FSL1H101J	CHIP C 100PF J		
C421,422			CE04LW1C470M	ELECTRO 47UF 16WV		
C423			CC45FSL1H101J	CERAMIC 100PF J		
C424			CC73FSL1H102J	CHIP C 1000PF J		
C435,436			CQ93FMG1H682J	MYLAR 6800PF J	M	3
C435,436			CQ93FMG1H682J	MYLAR 6800PF J	YM	4
C435,436			CQ93FMG1H682J	MYLAR 6800PF J	M	2
C482			CC73FSL1H150J	CHIP C 15PF J		
J301			E20-0476-05	LOCK TERMINAL BOARD		
KRPMX	3					
J301			E20-0476-05	LOCK TERMINAL BOARD(4P)	KRPYMX	4
J301			E20-0476-05	LOCK TERMINAL BOARD(4P)	M	2
J301			E70-0051-05	LOCK TERMINAL BOARD		
1						
CF301,302			L72-0531-05	CERAMIC FILTER		
CF303			L72-0574-05	CERAMIC FILTER		
L310			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L311			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L312			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L403			L39-1328-05	COMBINATION COIL	KRPMX	3
L403			L39-1328-05	COMBINATION COIL		1
L403		*	L39-1335-05	COMBINATION COIL	KRPYMX	4
L403		*	L39-1335-05	COMBINATION COIL	M	2
L406			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X301			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)	KRPYMX	4
X301			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)	M	2
X301		*	L77-2148-05	CRYSTAL RESONATOR(7.2MHz)	KRPMX	3
X301		*	L77-2148-05	CRYSTAL RESONATOR(7.2MHz)		1
X302			L78-0295-05	RESONATOR (456KHz)		
R301			RK73FB2A681J	CHIP R 680 J 1/10W		
R302			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R303			RK73FB2A331J	CHIP R 330 J 1/10W		
R304			RK73FB2A470J	CHIP R 47 J 1/10W		
R306			RK73FB2A331J	CHIP R		
⚠ R311			RD14NB2E101J	RD 100 J 1/4W		
R315			RK73FB2A391J	CHIP R 390 J 1/10W		
R319			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R321,322			RK73FB2A393J	CHIP R 39K J 1/10W		
R331			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R336,337			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R338			RK73FB2A221J	CHIP R 220 J 1/10W		
R339			RK73FB2A822J	CHIP R 8.2K J 1/10W		

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NO. 11

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R340			RK73FB2A102J	CHIP R 1.0K J 1/10W		
⚠ R342			RD14NB2E101J	RD 100 J 1/4W		
R343			RK73FB2A103J	CHIP R 10K J 1/10W		
R352			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R364			RK73FB2A104J	CHIP R 100K J 1/10W		
R401,402			RK73FB2A333J	CHIP R 33K J 1/10W		
R405,406			RK73FB2A123J	CHIP R 12K J 1/10W		
⚠ R411			RD14NB2E331J	RD 330 J 1/4W		H
⚠ R411			RD14NB2E331J	RD 330 J 1/4W		1
⚠ R411			RD14NB2E470J	RD 47 J 1/4W		S
R418			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R419			RK73FB2A123J	CHIP R 12K J 1/10W		
R422			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R423			RK73FB2A123J	CHIP R 12K J 1/10W		
R424			RK73FB2A103J	CHIP R 10K J 1/10W		
R425,426			RK73FB2A332J	CHIP R 3.3K J 1/10W		
⚠ R427,428			RD14NB2E101J	RD 100 J 1/4W		
R431,432			RK73FB2A393J	CHIP R 39K J 1/10W		
R438,439			RK73FB2A561J	CHIP R 560 J 1/10W	M	3
R438,439			RK73FB2A561J	CHIP R 560 J 1/10W	YM	4
R438,439			RK73FB2A561J	CHIP R 560 J 1/10W	M	2
R440,441			RK73FB2A473J	CHIP R 47K J 1/10W	M	3
R440,441			RK73FB2A473J	CHIP R 47K J 1/10W	YM	4
R440,441			RK73FB2A473J	CHIP R 47K J 1/10W	M	2
R451			RK73FB2A911J	CHIP R 910 J 1/10W		
R452			RK73FB2A473J	CHIP R 47K J 1/10W		
R453			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R457			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R467			RK73FB2A104J	CHIP R 100K J 1/10W		
W401,402			R92-0679-05	CHIP R 0 OHM	KRPMX	3
W401,402			R92-0679-05	CHIP R 0 OHM		1
W403			R92-0670-05	CHIP R 0 OHM		
W404,405			R92-0679-05	CHIP R 0 OHM		
W406			R92-0670-05	CHIP R 0 OHM		
W407			R92-0679-05	CHIP R 0 OHM		
W408			R92-0670-05	CHIP R 0 OHM		
W409			R92-0679-05	CHIP R 0 OHM		
W410			R92-0670-05	CHIP R 0 OHM		
W411			R92-0679-05	CHIP R 0 OHM		
W412			R92-0670-05	CHIP R 0 OHM	MX	3
W412			R92-0670-05	CHIP R 0 OHM	KRPYMX	4
W412			R92-0670-05	CHIP R 0 OHM	M	2
W412-414			R92-0670-05	CHIP R 0 OHM	KRP	3
W412-414			R92-0670-05	CHIP R 0 OHM		1
W501-504			R92-0670-05	CHIP R 0 OHM		
S301			S62-0034-05	SLIDE SWITCH	M	3
S301			S62-0034-05	SLIDE SWITCH	YM	4
S301			S62-0034-05	SLIDE SWITCH	M	2
D303			HZS5.1N(B2)	ZENER DIODE		
D303			RD5.1ES(B2)	ZENER DIODE		
D303			UZ-5.1BSB	ZENER DIODE		
D304			HZS3.3N(B2)	ZENER DIODE		
D304			RD3.3ES(B2)	ZENER DIODE		
D304			UZ-3.3BSB	ZENER DIODE		

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NO. 12

PRef. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D307,308			HSS104	DIODE		
D307,308			1SS133	DIODE		
D311			HZS5.6N(B2)	ZENER DIODE		
D311			RD5.6ES(B2)	ZENER DIODE		
D311			UZ-5.6BSB	ZENER DIODE		
D411,412			HSS104	DIODE		
D411,412			1SS133	DIODE		
IC301			LA1831A-KEN	ANALOGUE IC		
IC302			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
IC312			NJM4565D	IC(OP AMP X2)		
Q301			2SC2714(R,O)	TRANSISTOR		
Q302			2SC1845(F,E)	TRANSISTOR		
Q303			2SC1740S(Q,R)	TRANSISTOR		
Q303			2SC2458(Y,GR)	TRANSISTOR		
Q303			2SC2785(F,E)	TRANSISTOR		
Q303			2SC3311A(Q,R)	TRANSISTOR		
Q307			2SC2412K	TRANSISTOR		
Q311			2SD863(E,F)	TRANSISTOR		
Q402			2SA1037K	TRANSISTOR		
Q404			2SA1037K	TRANSISTOR		
Q407,408			2SC2412K	TRANSISTOR	M3	
Q407,408			2SC2412K	TRANSISTOR	YM	4
Q407,408			2SC2412K	TRANSISTOR	M	2
Q409,410			2SD1757K	TRANSISTOR		
Q411			2SA1037K	TRANSISTOR		
A301			W02-1190-05	FM FRONT-END ASSY	KRPYMX	4
A301			W02-1190-05	FM FRONT-END ASSY	M	2
A301		*	W02-2520-05	FM FRONT-END ASSY	KRPMX	3
A301		*	W02-2520-05	FM FRONT-END ASSY		1
AUDIO UNIT - TUNER (X09-) : T.E.G. type						
C301,302			CK73FB1H103K	CHIP C 0.010UF K		
C303			CE04LW1V100M	ELECTRO 10UF 35WV		
C304			CK73FB1E473K	CHIP C 0.047UF K		
C305			CE04LW1V100M	ELECTRO 10UF 35WV		
C306			CK73FB1E473K	CHIP C 0.047UF K		
C307			CE04LW1V100M	ELECTRO 10UF 35WV		
C308			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C309			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C310			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C311			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C312			CK73FB1E473K	CHIP C 0.047UF K		
C313			CC73FCH1H220J	CHIP C 22PF J		
C314			CE04LW1A101M	ELECTRO 100UF 10WV		
C315			CK73FB1H472K	CHIP C 4700PF K		
C316			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C317,318			CE04LW1V100M	ELECTRO 10UF 35WV		
C319,320			CQ93FMG1H223J	MYLAR 0.022UF J		
C322			CK73FB1H102K	CHIP C 1000PF K		
C323,324			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C325,326			CK45FB1H471K	CERAMIC 470PF K		
C327			CK73FB1E473K	CHIP C 0.047UF K		
C328			CC45FSL1H150J	CERAMIC 15PF J		
C330			CE04LW1C470M	ELECTRO 47UF 16WV		
C331			CK45FF1H473Z	CERAMIC 0.047UF Z		
C332			CK73FB1H103K	CHIP C 0.010UF K		

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Y:AAFES(Europe) **X**: Australia **M**: Other Areas
⚠ indicates safety critical components.

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NO. 13

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C333			CC73FCH1H270J	CHIP C 27PF J		
C334			CC73FCH1H220J	CHIP C 22PF J		
C335-338			CK73FB1H471K	CHIP C 470PF K		
C339			CE04LW1C470M	ELECTRO 47UF 16WV		
C340			CQ93FMG1H223J	MYLAR 0.022UF J		
C341			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C342,343			CK73FB1H103K	CHIP C 0.010UFK		
C344			CE04LW1A470M	ELECTRO 47UF 10WV		
C345			CE04LW1C470M	ELECTRO 47UF 16WV		
C346			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C347			CK73FB1H103K	CHIPC 0.010UFK		
C348			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C349			CK73FB1H103K	CHIPC 0.010UFK		
C354			CE04LW1C470M	ELECTRO 47UF 16WV		
C356			CC73FCH1H060D	CHIPC 6.0PF D		
C357			CC73FCH1H220J	CHIPC 22PF J		
C358			CK73FB1E473K	CHIPC 0.047UFK		
C359			CK45FF1H103Z	CERAMIC 0.010UFZ		
C360			CC73FSL1H101J	CHIPC 100PF J		
C361			C91-0745-05	CERAMIC 100PF K		
C362			CC45FSL1H020C	CERAMIC 2.0PF C		H
C362			CC45FSL1H030C	CERAMIC 3.0PF C		S
C363			CK73FB1H103K	CHIPC 0.010UFK		
C364			CC45FSL1H101J	CERAMIC 100PF J		
C365			CK73FB1H103K	CHIPC 0.010UFK		
J301			E20-0321-05	LOCKTERMINALBOARD		
CF301,302			L72-0536-05	CERAMICFILTER		
L303			L30-0910-05	FMIFT		
L306			L39-1325-05	COMBINATIONCOIL	T	H 3
L306			L39-1328-05	COMBINATIONCOIL	EG	H 3
L306		*	L39-1335-05	COMBINATIONCOIL	EG	S
L306		*	L39-1336-05	COMBINATIONCOIL	T	S
L307			L30-0911-05	AMIFT		
L308,309			L40-1091-17	SMALLFIXEDINDUCTOR		
L311			L40-1001-17	SMALLFIXEDINDUCTOR(10UH,K)		
X301			L77-1122-05	CRYSTALRESONATOR(7.2MHz)		4
X301			L77-1122-05	CRYSTALRESONATOR(7.2MHz)		S 3
X301		*	L77-2148-05	CRYSTALRESONATOR(7.2MHz)		H 3
X302			L78-0295-05	RESONATOR (456kHz)		
R301			RK73FB2A681J	CHIPR 680 J1/10W		
R302			RK73FB2A332J	CHIPR 3.3K J1/10W		
R303			RK73FB2A331J	CHIPR 330 J1/10W		
R304			RK73FB2A100J	CHIPR 10 J1/10W		
R306			RK73FB2A331J	CHIPR 330 J1/10W		
R307			RK73FB2A392J	CHIPR 3.9K J1/10W		
R311			RK73FB2A562J	CHIPR 5.6K J1/10W		
R312			RK73FB2A302J	CHIPR 3.0K J1/10W		
R313			RK73FB2A333J	CHIPR 33K J1/10W		
R316			RK73FB2A104J	CHIPR 100K J1/10W		
R317			RK73FB2A392J	CHIPR 3.9K J1/10W		
R318			RK73FB2A333J	CHIPR 33K J1/10W		
R331			RK73FB2A822J	CHIPR 8.2K J1/10W		
R336,337			RK73FB2A102J	CHIPR 1.0K J1/10W		
R340			RK73FB2A471J	CHIPR 470 J1/10W		

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S: *SINGAPORE made*
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NO. 14

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
⚠ R342			RD14NB2E101J	RD 100 J 1/4W		
R343			RK73FB2A103J	CHIP R 10K J 1/10W		
R358			RK73FB2A104J	CHIP R 100K J 1/10W		
R359			RK73FB2A122J	CHIP R 1.2K J 1/10W	T	
R360			RK73FB2A123J	CHIP R 12K J 1/10W	T	
R361			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R362			RK73FB2A123J	CHIP R 12K J 1/10W		
R363			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R364			RK73FB2A123J	CHIP R 12K J 1/10W		
R372			RK73FB2A122J	CHIP R 1.2K J 1/10W	T	
R373			RK73FB2A223J	CHIP R 22K J 1/10W	T	
R374			RK73FB2A123J	CHIP R 12K J 1/10W	T	
R375			RK73FB2A182J	CHIP R 1.8K J 1/10W	T	
R376			RK73FB2A104J	CHIP R 100K J 1/10W	T	
⚠ R378			RD14NB2E470J	RD 47 J 1/4W		
R379			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R381			RK73FB2A563J	CHIP R 56K J 1/10W		
W401,402			R92-0679-05	CHIP R 0 OHM		
W403			R92-0670-05	CHIP R 0 OHM		
W404,405			R92-0679-05	CHIP R 0 OHM		
W406			R92-0670-05	CHIP R 0 OHM		
W407			R92-0679-05	CHIP R 0 OHM		
W408			R92-0670-05	CHIP R 0 OHM		
W409			R92-0679-05	CHIP R 0 OHM		
W410			R92-0670-05	CHIP R 0 OHM		
W411			R92-0679-05	CHIP R 0 OHM		
W412			R92-0670-05	CHIP R 0 OHM		
D301,302			HSS104	DIODE		
D301,302			1SS133	DIODE		
D303			HZS5.1N(B2)	ZENER DIODE		
D303			RD5.1ES(B2)	ZENER DIODE		
D303			UZ-5.1BSB	ZENER DIODE		4
D304			HZS8.2N(B2)	ZENER DIODE		
D304			RD8.2ES(B2)	ZENER DIODE		
D304			UZ-8.2BSB	ZENER DIODE		4
D305			HSS104	DIODE		
D305			1SS133	DIODE		
D306			HZS3.3N(B2)	ZENER DIODE		
D306			RD3.3ES(B2)	ZENER DIODE		
D306			UZ-3.3BSB	ZENER DIODE		
D310			HSS104	DIODE	T	
D310			1SS133	DIODE	T	
IC301			LA1836	ANALOGUE IC		
IC302			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
Q301			2SC2714(R,O)	TRANSISTOR		
Q302			2SC1845(F,E)	TRANSISTOR		
Q303			2SC4081(R,S)	TRANSISTOR		
Q305			2SC1740S(Q,R)	TRANSISTOR		
Q305			2SC2458(Y,GR)	TRANSISTOR		
Q305			2SC2785(F,E)	TRANSISTOR		
Q305			2SC3311A(Q,R)	TRANSISTOR		
Q306			2SA1576(R,S)	TRANSISTOR	T	
Q307,308			2SA1576(R,S)	TRANSISTOR		
Q309			2SD863(E,F)	TRANSISTOR		

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NO. 15

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q310			2SA1048(Y,GR)	TRANSISTOR		
Q310			2SA1175(F,E)	TRANSISTOR		
Q310			2SA1309A(Q,R)	TRANSISTOR		
Q310			2SA933S(Q,R)	TRANSISTOR		
Q311,312			2SD1302(S,T)	TRANSISTOR		
Q311,312			2SD1450(S,T)	TRANSISTOR		
Q313-315			2SC4081(R,S)	TRANSISTOR	T	
A301			W02-2509-05	FM FRONT-END ASSY		
AUDIO UNIT- EXCEPT TUNER (X09-)						
C1 ,2			CC73FSL1H221J	CHIP C 220PF J	KRPYMX	
C1 ,2			CC73FSL1H471J	CHIP C 470PF J		
C3 -9			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C10			CE04LW1V100M	ELECTRO 10UF 35WV		
C11			CE04LW1HR22M	ELECTRO 0.22UF 50WV		
C12			CC45FSL1H220J	CERAMIC 22PF J		
C13			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C14			CQ93FMG1H223J	MYLAR 0.022UF J		
C29 ,30			CE04LW1C220M	ELECTRO 22UF 16WV		
C31			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C32			CE04LW1V100M	ELECTRO 10UF 35WV		
C33 -36			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C37			CE04LW1C220M	ELECTRO 22UF 16WV		
C38 ,39			CK73FB1E104K	CHIP C 0.10UF K		
C40			CK73FB1H562K	CHIP C 5600PF K		
C41			CF92FV1H684J	MF-C 0.68UF J		
C42 ,43			CK73FF1E154Z	CHIP C 0.15UF Z		
C44 ,45			CK73FB1H223K	CHIP C 0.022UF K		
C46			CQ93FMG1H122J	MYLAR 1200PF J		
C47			CK73FB1H222K	CHIP C 2200PF K		
C48 ,49			CK73FF1E154Z	CHIP C 0.15UF Z		
C50 ,51			CK73FB1H562K	CHIP C 5600PF K		
C71 ,72			CC45FSL1H101J	CERAMIC 100PF J		
C73 ,74		⁎	C90-3413-05	ALMINIUM ELECTROLYTIC C.		
C75 -78			CQ93FMG1H103J	MYLAR 0.010UF J		
C79 ,80			CK45FB1H102K	CERAMIC 1000PF K		
C81 ,82			CK45FB1H102K	CERAMIC 1000PF K	TEG	4
C81 ,82			CK45FB1H102K	CERAMIC 1000PF K	TEG	3
C83 ,84			CQ93FMG1H153J	MYLAR 0.015UF J	TEG	4
C83 ,84			CQ93FMG1H153J	MYLAR 0.015UF J	TEG	3
C87			CC45FSL1H331J	CERAMIC 330PF J		
C88 ,89			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C90			CK45FB1H821K	CERAMIC 820PF K		
C92			CC45FSL1H331J	CERAMIC 330PF J		
C93			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C97			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	3
C97			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	2
C98			CQ93FMG1H103J	MYLAR 0.010UF J	M	3
C98			CQ93FMG1H103J	MYLAR 0.010UF J	M	2
C99			CQ93FMG1H222J	MYLAR 2200PF J	M	3
C99			CQ93FMG1H222J	MYLAR 2200PF J	M	2
C100			CQ93FMG1H104J	MYLAR 0.10UF J	M	3
C100			CQ93FMG1H104J	MYLAR 0.10UF J	M	2
C101,102			CF92FV1H224J	MF-C 0.22UF J	M	3
C101,102			CF92FV1H224J	MF-C 0.22UF J	M	2

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NO. 16

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C103			CF92FV1H105J	MF-C 1.0UF J	M	3
C103			CF92FV1H105J	MF-C 1.0UF J	M	2
C104			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	3
C104			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	2
C105			CQ93FMG1H222J	MYLAR 2200PF J	M	3
C105			CQ93FMG1H222J	MYLAR 2200PF J	M	2
C106			CQ93FMG1H103J	MYLAR 0.010UF J	M	3
C106			CQ93FMG1H103J	MYLAR 0.010UF J	M	2
C107			CQ93FMG1H104J	MYLAR 0.10UF J	M	3
C107			CQ93FMG1H104J	MYLAR 0.10UF J	M	2
C108			CE04LW1C470M	ELECTRO 47UF 16WV	M	3
C108			CE04LW1C470M	ELECTRO 47UF 16WV	M	2
C109			CC73FSL1H680J	CHIP C 68PF J	M	3
C109			CC73FSL1H680J	CHIP C 68PF J	M	2
C110			CE04LW1A470M	ELECTRO 47UF 10WV		
C110			CE04LW1A470M	ELECTRO 47UF 10WV	M	2
C112			CE04LW1A470M	ELECTRO 47UF 10WV		
C114			CE04LW1C470M	ELECTRO 47UF 16WV		
C115,116			C90-3561-05	ELECTRO 4700UF 50WV		
C117,118			CQ93FMG1H104J	MYLAR 0.10UF J		
C123			CE04LW1V332M	ELECTRO 3300UF 35WV		
C125			CE04LW1V471M	ELECTRO 470UF 35WV		
C128			CE04LW1H101M	ELECTRO 100UF 50WV		
C129			CE04LW1E101M	ELECTRO 100UF 25WV		
C131			CE04LW1H101M	ELECTRO 100UF 50WV		
C134			CE04LW1V330M	ELECTRO 33UF 35WV		
C135			CE04LW1V222M	ELECTRO 2200UF 35WV		
C136,137			CQ93FMG1H104J	MYLAR 0.10UF J		
C138			CE04LW1A470M	ELECTRO 47UF 10WV		
C139			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C141			CE04LW1V330M	ELECTRO 33UF 35WV		
C142			CE04LW1V221M	ELECTRO 220UF 35WV		
⚠ C144			C91-1488-05	MF 6800PF 250VAC		
C146			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C147			CE04LW1H100M	ELECTRO 10UF 50WV		
C150,151			CK45FF1H103Z	CERAMIC 0.010UF Z		
C152			CE04LW1C470M	ELECTRO 47UF 16WV		
C154,155			CE04LW1C470M	ELECTRO 47UF 16WV		
C156			CE04LW1C221M	ELECTRO 220UF 16WV		
C160			CK73FB1H471K	CHIP C 470PF K		
C163,164			CC73FSL1H101J	CHIP C 100PF J		
C166,167			CK73FB1H103K	CHIP C 0.010UF K		
C170			CK73FB1H103K	CHIP C 0.010UF K		
C171			CK45FF1H103Z	CERAMIC 0.010UF Z		
C173-176			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C177			CK73FB1H103K	CHIP C 0.010UF K		
C178			CE04LW1C100M	ELECTRO 10UF 16WV	M	3
C178			CE04LW1C100M	ELECTRO 10UF 16WV	M	2
C179,180			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C182			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	3
C182			CE04LW1H010M	ELECTRO 1.0UF 50WV	M	2
C183			CE04LW1V221M	ELECTRO 220UF 35WV		2
C183			CE04LW1V221M	ELECTRO 220UF 35WV		3
C183			CE04LW1V221M	ELECTRO 220UF 35WV		1
C183			CE04LW1V221M	ELECTRO 220UF 35WV	YMXTEG	4

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NO. 17

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C183			C90-3398-05	ELECTRO 220UF 35WV	KRP	4
C185,186			CC73FSL1H470	CHIP C 47PF J	TEG	3
C185,186			CC73FSL1H470J	CHIP C 47PF J	TEG	4
C187,188			CE04LW1V100M	ELECTRO 10UF 35WV		
C189,190			CE04HW1H101M	NP-ELEC 100UF 50WV		1
C191			CE04LW1H221M	ELECTRO 220UF 50WV		
C192			CE04LW1C100M	ELECTRO 10UF 16WV		
C193			CK73FB1E104K	CHIP C 0.10UF K		
C195			C91-0750-05	CERAMIC 270PF K		
C500			CK45FB1H102K	CERAMIC 1000PF K	KRP	3
C500			CK45FB1H102K	CERAMIC 1000PF K	KRPYM4	
C500			CK45FB1H102K	CERAMIC 1000PF K		1
C601			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C602			CC45FSL1H101J	CERAMIC 100PF J	M	3
C602			CC45FSL1H101J	CERAMIC 100PF J	M	2
CN1			E40-4804-05	SOCKET FOR PIN ASSY		
CN2		*	E40-4858-05	SOCKET FOR PIN ASSY		
CN3			E40-4796-05	PIN ASSY		
CN4 ,5			E40-4809-05	PIN ASSY		
CN6	2I	*	E40-4920-05	FLAT CABLE CONNCTOR		
CN7			E40-4284-05	FLAT CABLE CONNCTOR		
CN7 ,8			E40-4297-05	FLAT CABLE CONNCTOR	M	2
CN8			E40-4298-05	FLAT CABLE CONNCTOR		
CN201			E40-4245-05	PIN ASSY	TEG	3
CN202			E40-4245-05	PIN ASSY		
J1			E63-0096-05	PHONO JACK		1S
J1			E63-0096-05	PHONO JACK		4S
J1			E63-0096-05	PHONO JACK	M	2
J1			E63-0096-05	PHONO JACK		W
J1			E63-0096-05	PHONO JACK		4W
J1		*	E63-0144-05	PHONO JACK		3H
J1		*	E63-0144-05	PHONO JACK		1H
J2 ,3		*	E11-0283-05	MINIATURE PHONE JACK MIC1/MIC2		
J4		*	E11-0280-05	PHONE JACK		1H
J4		*	E11-0280-05	PHONE JACK		3H
J4		*	E11-0282-05	PHONE JACK		4
J4		*	E11-0282-05	PHONE JACK		1S
J4			E11-0282-05	PHONE JACK	M	2
J4		*	E11-0282-05	PHONE JACK		3S
J5			E70-0032-05	LOCK TERMINAL BOARD	KRP	3
J5			E70-0032-05	LOCK TERMINAL BOARD	KRP	4
J5			E70-0032-05	LOCK TERMINAL BOARD		1
J5			E70-0048-05	LOCK TERMINAL BOARD	MXTEG	3
J5			E70-0048-05	LOCK TERMINAL BOARD	YMXTEG	4
J5			E70-0048-05	LOCK TERMINAL BOARD	M	2
⚠ J6			E03-0316-05	AC OUTLET		
⚠ F1			F05-6029-05	FUSE (UL) (125V 6A)	KRP	3
⚠ F1			F05-6029-05	FUSE (UL) (125V 6A)	KRP	4
⚠ F1			F05-6029-05	FUSE (UL) (125V 6A) 1		
⚠ F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M	3
⚠ F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YM	4
⚠ F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M	2
⚠ F3 ,4			F05-5025-05	FUSE (SEMKO) (250V T5A L)	MXTEG	3
⚠ F3 ,4			F05-5025-05	FUSE (SEMKO) (250V T5A L)	YMXTEG	4

L: Scandinavia **K:** USA **P:** Canada **W:** MALAYSIA made **H:** HUIZHOU made
Y: PX(Far East, Hawaii) **T:** England **E:** Europe **S:** SINGAPORE made **1:** RXD-F41
Y: AAFES(Europe) **X:** Australia **M:** Other Areas **2:** RXD-F42 **3:** RXD-F3
4: RXD-F4
⚠ indicates safety critical components.

* New Parts
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NO. 18

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
⚠ F3 ,4			F05-5025-05	FUSE (SEMKO) (250V T5A L)	M	2
⚠ F3 ,4			F05-6029-05	FUSE (UL) (125V 6A)	KRP	3
⚠ F3 ,4			F05-6029-05	FUSE (UL) (125V 6A)	KPR	4
⚠ F3 ,4			F05-6029-05	FUSE (UL) (125V 6A)		1
⚠ F5			F06-1022-05	FUSE (SEMKO) (250V T1AL)	MXTEG	3
⚠ F5			F06-1022-05	FUSE (SEMKO) (250V T1AL)	YMXTEG	4
⚠ F5			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M	2
⚠ F5			F06-1222-05	FUSE (UL) (250V 1.25A)	KRP	3
⚠ F5			F06-1222-05	FUSE (UL) (250V 1.25A)	KPR	4
⚠ F5			F06-1222-05	FUSE (UL) (250V 1.25A)		1
⚠ F6			F04-2025-05	FUSE (UL) (250V 2A)	KRP	3
⚠ F6			F04-2025-05	FUSE (UL) (250V 2A)	KRP	4
⚠ F6			F04-2025-05	FUSE (UL) (250V 2A)		1
⚠ F6			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	MXTEG	3
⚠ F6			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	YMXTEG	4
⚠ F6			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)	M	2
⚠ F7			F50-0062-05	FUSE(5X20)	KRP	3
⚠ F7			F50-0062-05	FUSE(5X20)	KRP	4
⚠ F7			F50-0062-05	FUSE(5X20)		1
-		*	J21-6254-14	MOUNTING HARDWARE	TEG	
-		*	J21-6255-14	MOUNTING HARDWARE	TEG	
-			J61-0307-05	WIRE BAND		3
-			J61-0307-05	WIRE BAND	TEG	
CN101-108			J13-0075-05	FUSE CLIP		
CN109,110			J13-0075-05	FUSE CLIP	M	2
CN109,110			J13-0075-05	FUSE CLIP	M	3
CN109,110			J13-0075-05	FUSE CLIP	YM	4
CN111,112			J13-0075-05	FUSE CLIP	KRPM	3
CN111,112			J13-0075-05	FUSE CLIP	KRPYM	4
CN111,112			J13-0075-05	FUSE CLIP	M	2
CN113,114			J13-0075-05	FUSE CLIP	KRP	4
CN113,114			J13-0075-05	FUSE CLIP	KRP	3
CN113,114			J13-0075-05	FUSE CLIP		1
L1 ,2			L39-0085-05	PHASE COMPENSATION COIL	TEG	3
L1 ,2			L39-0085-05	PHASE COMPENSATION COIL	TEG	4
R1			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R4 -7			RK73FB2A224J	CHIP R 220K J 1/10W		
R8			RK73EB2B224J	CHIP R 220K J 1/8W		
R9 -12			RK73FB2A224J	CHIP R 220K J 1/10W		
R14				CHIP R 220K J 1/10W		
R43 ,44			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R51 ,52			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R55 ,56			RK73FB2A104J	CHIP R 100K J 1/10W		
R107-110			RD14NB2E100J	RD 10 J 1/4W		
R111-114			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R119		*	RK73EB2B683J	CHIP R 68K J 1/8W		
R121-124			RD14NB2E681J	RD 680 J 1/4W		
R125,126			RD14NB2E4R7J	RD 4.7 J 1/4W	TEG	3
R125,126			RD14NB2E4R7J	RD 4.7 J 1/4W	TEG	4
R170			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R171			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R172			RK73FB2A561J	CHIP R 560 J 1/10W		
R173		*	RK73EB2B562J	CHIP R 5.6K J 1/8W		
R176,177			RK73EB2B103J	CHIP R 10K J 1/8W		

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✱ New Parts
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NO. 19

	Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
	R178,179			RK73EB2B681J	CHIP R 680 J 1/8W		
	R185			RS14KB3A152J	FL-PROOF RS 1.5K J 1W		
	R187			RK73FB2A823J	CHIP R 82K J 1/10W		
	R188			RK73FB2A104J	CHIP R 100K J 1/10W		
	R189			RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R190			RK73FB2A473J	CHIP R 47K J 1/10W		
	R191			RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R192			RK73FB2A103J	CHIP R 10K J 1/10W		
	R194			RK73FB2A103J	CHIP R 10K J 1/10W		
	R195			RS14KB3D150J	FL-PROOF RS 15 J 2W		1
	R195			RS14KB3D330J	FL-PROOF RS 33 J 2W		3
	R195			RS14KB3D330J	FL-PROOF RS 33 J 2W		4
	R195			RS14KB3D330J	FL-PROOF RS 33 J 2W	M	2
	R197			RK73FB2A103J	CHIP R 10K J 1/10W		4
⚠	R198			RS14KB3D330J	FL-PROOF RS 33 J 2W		4
	R199			RK73FB2A682J	CHIP R 6.8K J 1/10W	MXTEG	3
	R199			RK73FB2A682J	CHIP R 6.8K J 1/10W	YMXTEG	4
	R199			RK73FB2A682J	CHIP R 6.8K J 1/10W	M	2
⚠	R201			RS14KB3A330J	FL-PROOF RS 33 J 1W	MXTEG	3
⚠	R201			RS14KB3A330J	FL-PROOF RS 33 J 1W	YMXTEG	4
⚠	R201			RS14KB3A330J	FL-PROOF RS 33 J 1W	M	2
⚠	R207			RD14NB2E100J	RD 10 J 1/4W		
⚠	R209			RD14NB2E220J	RD 22 J 1/4W		
⚠	R210,211			RD14NB2E100J	RD 10 J 1/4W		
⚠	R212			RD14NB2E101J	RD 100 J 1/4W		
	R215,216			RK73FB2A222J	CHIP R 2.2K J 1/10W	MXTEG	3
	R215,216			RK73FB2A222J	CHIP R 2.2K J 1/10W		4
	R215,216			RK73FB2A222J	CHIP R 2.2K J 1/10W	M	2
	R217,218			RK73FB2A224J	CHIP R 220K J 1/10W		
	R220			RK73FB2A103J	CHIP R 10K J 1/10W		
	R221			RK73EB2B103J	CHIP R 10K J 1/8W		
	R226			RK73FB2A391J	CHIP R 390 J 1/10W		
	R228			RK73FB2A101J	CHIP R 100 J 1/10W		
	R254			RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R256			RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R258			RK73FB2A102J	CHIP R 1.0K J 1/10W		
	R259			RK73EB2B183J	CHIP R 18K J 1/8W		
	R261-263			RK73FB2A104J	CHIP R 100K J 1/10W		
	R265,266			RK73FB2A103J	CHIP R 10K J 1/10W	MXTEG	3
	R265,266			RK73FB2A103J	CHIP R 10K J 1/10W		4
	R265,266			RK73FB2A103J	CHIP R 10K J 1/10W	M	2
	R269,270			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
⚠	R271			RS14KB3D221J	FL-PROOF RS 220 J 2W		
	R272			RD14NB2E121J	RD 120 J 1/4W	M	3
	R272			RD14NB2E121J	RD 120 J 1/4W	M	2
⚠	R273			R92-1769-05	CARBON 3.3M J 1/2W	KRP	3
⚠	R273			R92-1769-05	CARBON 3.3M J 1/2W	KRP	4
⚠	R273			R92-1769-05	CARBON 3.3M J 1/2W		1
	R274			RK73FB2A473J	CHIP R 47K J 1/10W		
	R276			RK73FB2A225J	CHIP R 2.2M J 1/10W	M	3
	R276			RK73FB2A225J	CHIP R 2.2M J 1/10W	M	2
	VR1			R31-0002-05	VARIABLE RESISTOR		
	VR2			R31-0028-05	VARIABLE RESISTOR		
	W501-505			R92-0670-05	CHIP R 0 OHM	TEG	
	W512			R92-0679-05	CHIP R 0 OHM	TEG	

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NO. 20

	Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
	W513			R92-0679-05	CHIP R 0 OHM	T	
	W516			R92-0670-05	CHIP R 0 OHM	TEG	
	W518-522			R92-0670-05	CHIP R 0 OHM	EG	
	W521			R92-0670-0	CHIP R 0 OHM	T	
⚠	K1			S51-2094-05	MAGNETIC RELAY		
	K2			S51-2093-05	MAGNETIC RELAY		4
	K3			S51-2093-05	MAGNETIC RELAY	MXTEG	3
	K3			S51-2093-05	MAGNETIC RELAY	M	2
	K3			S51-2093-05	MAGNETIC RELAY	YMXTEG	4
⚠	K4			S51-1052-05	MAGNETIC RELAY		1
⚠	S1			S31-2322-05	SLIDE SWITCH 120-/220/230-	M	3
⚠	S1			S31-2322-05	SLIDE SWITCH 120-/220/230-	YM	4
⚠	S1			S31-2322-05	SLIDE SWITCH 120-/220/230-	M	2
⚠	D1			D3SBA20F03	DIODE		
⚠	D1			RBV-402LFA	DIODE		
⚠	D2			KBP02ML-6127	DIODE		
⚠	D3 -9			S5688B	DIODE		
⚠	D3 -9			1SR139-100	DIODE		
⚠	D10 ,11			HSS104A	DIODE		
⚠	D10 ,11			1SS131	DIODE		
⚠	D12 ,13			HZS5.6N(B2)	ZENER DIODE		
⚠	D12 ,13			RD5.6ES(B2)	ZENER DIODE		
⚠	D12 ,13			UZ-5.6BSB	ZENER DIODE		
	D14 ,15			HZS13N(B2)	ZENER DIODE		
	D14 ,15			RD13ES(B2)	ZENER DIODE		
	D14 ,15			UZ-13BSB	ZENER DIODE		
	D16			HZS16N(B2	ZENER DIODE		
	D16			RD16ES(B2)	ZENER DIODE		
	D16			UZ-16BSB	ZENER DIODE		4
	D16			UZ-16BSB	ZENER DIODE	M	2
	D16			UZ-16BSB	ZENER DIODE		3
	D17 -19			HSS104A	DIODE		
	D17 -19			1SS131	DIODE		
	D20			HSS104A	DIODE		4
	D20			1SS131	DIODE		4
	D21			HSS104A	DIODE	YMXTEG	4
	D21			HSS104A	DIODE	MXTEG	3
	D21			HSS104A	DIODE	M	2
	D21			1SS131	DIODE	YMXTEG	4
	D21			1SS131	DIODE	MXTEG	3
	D21			1SS131	DIODE	M	2
	D22			MA111	DIODE		
	D23 ,24			HSS104A	DIODE		
	D23 ,24			1SS131	DIODE		
	D25 ,26			HZS6.2N(B2)	ZENER DIODE		
	D25 ,26			RD6.2ES(B2)	ZENER DIODE		
	D25 ,26			UZ-6.2BSB	ZENER DIODE		
	D28			HSS104A	DIODE		
	D28			1SS131	DIODE		
	D30 ,31			MA111	DIODE		
	D32 ,33			HSS104A	DIODE		
	D32 ,33			1SS131	DIODE		
	D34			HZS6.2N(B2)	ZENER DIODE	M	3
	D34			HZS6.2N(B2)	ZENER DIODE	M	2

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NO. 21

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D34			RD6.2ES(B2)	ZENER DIODE	M	3
D34			RD6.2ES(B2)	ZENER DIODE	M	2
D34			UZ-6.2BSB	ZENER DIODE	M	3
D34			UZ-6.2BSB	ZENER DIODE	M	2
D36 -39			HSS104A	DIODE		
D36 -39			1SS131	DIODE		
⚠ D40			HSS104A	DIODE		1
⚠ D40			1SS131	DIODE		1
⚠ D41			HZS8.2N(B2)	ZENER DIODE		
⚠ D41			RD8.2ES(B2)	ZENER DIODE		
⚠ D41			UZ-8.2BSB	ZENER DIODE		
D43 ,44			HSS104A	DIODE		
D43 ,44			1SS131	DIODE		
D45 ,46			HZS10N(B2)	ZENER DIODE	MXTEG	3
D45 ,46			HZS10N(B2)	ZENER DIODE	YMXTEG	4
D45 ,46			HZS10N(B2)	ZENER DIODE	M	2
D45 ,46			HZS30N(B)	ZENER DIODE	KRP	3 H
D45 ,46			HZS30N(B)	ZENER DIODE		1
D45 ,46			RD10ES(B2)	ZENER DIODE	MXTEG	3
D45 ,46			RD10ES(B2)	ZENER DIODE	YMXTEG	4
D45 ,46			RD10ES(B2)	ZENER DIODE	M	2
D45 ,46			RD30ES(B)	ZENER DIODE	KRP	3 H
D45 ,46			RD30ES(B)	ZENER DIODE		1
D45 ,46			UZ-10BSB	ZENER DIODE	KRPYMX	4
D45 ,46			UZ-10BSB	ZENER DIODE	M	2
⚠ D50			S5688B	DIODE		
⚠ D50			1SR139-100	DIODE		
⚠ D51			HSS104A	DIODE		
⚠ D51			1SS131	DIODE		
⚠ D60			S5688B	DIODE		
⚠ D60			1SR139-100	DIODE		
D61 -64			MA111	DIODE		
⚠ D65			S5688B	DIODE		
⚠ D65			1SR139-100	DIODE		
D603,604			HZS30N(B)	ZENER DIODE	KRP	3
D603,604			HZS30N(B)	ZENER DIODE	KRP	4
D603,604			HZS30N(B)	ZENER DIODE		1
D603,604			RD30ES(B)	ZENER DIODE	KRP	3
D603,604			RD30ES(B)	ZENER DIODE	KRP	4
D603,604			RD30ES(B)	ZENER DIODE		1
IC1			NJU7313AM	ANALOGUE IC		
IC2			NJM4565M	IC(OP AMP X2)		
IC3			NJM4565D-D	IC(OP AMP X2)		
IC3			XRA15218-DX	IC(OP AMP X2)		
IC7			NJM4565MD	IC(OP AMP X2)		
IC8			M65844P	DI BI-POLAR IC	M	3
IC8			M65844P	DI BI-POLAR IC	M	2
IC10			BU4066BCF	IC(ANALOG SWITCH X4)	M	3
IC10			BU4066BCF	IC(ANALOG SWITCH X4)	M	2
IC11			BU4094BCF	MOS-IC		
IC12			TDA7345D	ANALOGUE IC		
⚠ IC14			TA78057S	IC(VOLTAGE REGULATOR/+5.75V)		
IC15			NJM4565M	IC(OP AMP X2)		
Q9 ,10			2SC4137(V,W)	TRANSISTOR		
⚠ Q11 ,12			2SD2493	TRANSISTOR		

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NO. 22

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
⚠ Q13 ,14			2SB1624	TRANSISTOR		
Q15 ,16			2SC1740S(Q,R)	TRANSISTOR		
Q15 ,16			2SC2458(Y,GR)	TRANSISTOR		
Q15 ,16			2SC2785(F,E)	TRANSISTOR		
Q15 ,16			2SC3311A(Q,R)	TRANSISTOR		
Q17 ,18			2SC4081(R,S)	TRANSISTOR		
Q19			2SC3246	TRANSISTOR	MXTEG	3
Q19			2SC3246	TRANSISTOR	YMXTEG	4
Q19			2SC3246	TRANSISTOR	M	2
⚠ Q20			2SD1893	TRANSISTOR		
Q21			2SC4081(R,S)	TRANSISTOR		
Q22			2SC1740S(Q,R)	TRANSISTOR		
Q22			2SC2458(Y,GR)	TRANSISTOR		
Q22			2SC2785(F,E)	TRANSISTOR		
Q22			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q26 ,27			2SB1370	TRANSISTOR		
⚠ Q26 ,27			2SB1375	TRANSISTOR		
⚠ Q28			2SA954(L,K)	TRANSISTOR		
Q29			2SA1576(R,S)	TRANSISTOR		
Q30			3(L,K)	TRANSISTOR		
Q32			2SA1576(R,S)	TRANSISTOR		
Q33			2SC1740S(Q,R)	TRANSISTOR		
Q33			2SC2458(Y,GR)	TRANSISTOR		
Q33			2SC2785(F,E)	TRANSISTOR		
Q33			2SC3311A(Q,R)	TRANSISTOR		
Q34 ,35			DTC124EU	DIGITAL TRANSISTOR		
Q34 ,35			UN5212	TRANSISTOR		
Q41			3(L,K)	TRANSISTOR		4
Q43 ,44			2SC1845(F,E)	TRANSISTOR	MXTEG	3
Q43 ,44			2SC1845(F,E)	TRANSISTOR		4
Q43 ,44			2SC1845(F,E)	TRANSISTOR	M	2
CONTOL UNIT (X11-3600-00) : RXD-F42						
C1 -4			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C5 ,6			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C11			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C12 ,13			CK45FB1H102K	CERAMIC 1000PF K		
C14			CK45FB1H332K	CERAMIC 3300PF K		
C15			CK45FB1H102K	CERAMIC 1000PF K		
C17			CK45FB1H152K	CERAMIC 1500PF K		
C18			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C21 -23			CQ93FMG1H683J	MYLAR 0.068UF J		
C24 ,25			CC45FSL1H100D	CERAMIC 10PF D		
C26			CE04LW1C470M	ELECTRO 47UF 16WV		
C28			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C29			CK45FB1H152K	CERAMIC 1500PF K		
C30			CK45FB1H561K	CERAMIC 560PF K		
C32			CK45FB1H102K	CERAMIC 1000PF K		
C34 ,35			CK45FB1H102K	CERAMIC 1000PF K		
C36			CK45FB1H821K	CERAMIC 820PF K		
C37			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C38 -40			CQ93FMG1H104J	MYLAR 0.10UF J		
C41 -43			CC45FSL1H101J	CERAMIC 100PF J		
C44			CE04LW1C470M	ELECTRO 47UF 16WV		
C51			CE04LW1C470M	ELECTRO 47UF 16WV		

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Y:AAFES(Europe) **X**: Australia **M**: Other Areas
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NO. 23

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C52			CE04LW1C101M	ELECTRO 100UF 16WV		
C53 ,54			CQ93FMG1H104J	MYLAR 0.10UF J		
C56 ,57			CK45FF1H103Z	CERAMIC 0.010UF Z		
X1		*	L78-0626-05	RESONATOR (16M)		
⚠ R51			RD14NB2E100J	RD 10 J 1/4W		
D1			HZS6.2N(B2)	ZENER DIODE		
D1			RD6.2ES(B2)	ZENER DIODE		
D1			UZ-6.2BSB	ZENER DIODE		
IC1			M65840SP	MOS-IC		
IC2			XRU4052BC	MOS-IC		
IC3			NJM4565L-D	IC(OP AMP X2)		
⚠ IC4			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
⚠ IC4			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
IC5 ,6			NJM4565L-D	IC(OP AMP X2)		
Q1			DTC124ES	DIGITAL TRANSISTOR		
Q1			UN4212	DIGITAL TRANSISTOR		
DISPLAY UNIT (X14-)						
D56 -60			B30-2462-05	LED(GRN)		
D61 -67		*	B30-2476-05	LED		
D69			B30-1291-05	LED	M	2
C2			C90-3258-05	ELECTRO 10UF 50WV		
C3			CK73FF1C105Z	CHIP C 1.0UF Z		
C4			CK73FB1H102K	CHIP C 1000PF K		
C5 ,6			CC73FSL1H101J	CHIP C 100PF J		
C7 ,8			C90-3253-05	ELECTRO 1.0UF 50WV		
C9			C90-3212-05	ELECTRO 47UF 6.3WV		
C10			C90-3253-05	ELECTRO 1.0UF 50WV		
C11			CK73FB1H103K	CHIP C 0.010UF K		
C12			CC73FCH1H180J	CHIP C 18PF J		
C13			CC73FCH1H220J	CHIP C 22PF J		
C16			CE04LW1V470M	ELECTRO 47UF 35WV		
C17			C91-0769-05	CERAMIC 0.010UF K		
C18			C90-3216-05	ELECTRO 330UF 6.3WV		
C20 ,21			CK73FB1H103K	CHIP C 0.010UF K		
C22			CK73FF1C105Z	CHIP C 1.0UF Z		
C23 ,24			CC73FSL1H561J	CHIP C 560PF J		
C25			CK73FF1C105Z	CHIP C 1.0UF Z		
C26 ,27			CK73FB1H222K	CHIP C 2200PF K		
C28			CK73FF1C105Z	CHIP C 1.0UF Z		
C29 ,30			CK73FB1E153K	CHIP C 0.015UF K		
C31			CK73FF1C105Z	CHIP C 1.0UF Z		
C32 ,33			CK73FB1E104K	CHIP C 0.10UF K		
C34			C90-3244-05	ELECTRO 10UF 35WV		
C35			CK73FB1E104K	CHIP C 0.10UF K		
C36 -38			CC73FSL1H470J	CHIP C 47PF J		
C301,302			CF92FV1H564J	MF-C 0.56UF J		3
C301,302			CF92FV1H564J	MF-C 0.56UF J		4
C301,302			CF92FV1H564J	MF-C 0.56UF J	M	2
C303,304			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		3
C303,304			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		4
C303,304			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	M	2
C305,306			CC73FSL1H181J	CHIP C 180PF J		3

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NO. 24

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C305,306			CC73FSL1H181J	CHIP C 180PF J		4
C305,306			CC73FSL1H181J	CHIP C 180PF J	M	2
C307,308			CE04LW1V100M	ELECTRO 10UF 35WV		
C309,310			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C311,312			CK73FB1H102K	CHIP 1000PF K		
C313,314			CC73FSL1H470J	CHIP C 47PF J	XTEG	3
C313,314			CC73FSL1H470J	CHIP C 47PF J	XTEG	4
C315,316			CK45FB1H222K	CERAMIC 2200PF K	XTEG	3
C315,316			CK45FB1H222K	CERAMIC 2200PF K	XTEG	4
C317,318			CC45FSL1H101J	CERAMIC 100PF J	KRP	3
C317,318			CC45FSL1H101J	CERAMIC 100PF J	KRP	4
C317,318			CC45FSL1H101J	CERAMIC 100PF J		1
C317,318			CC45FSL1H221J	CERAMIC 220PF J	XTEG	3
C317,318			CC45FSL1H221J	CERAMIC 220PF J	XTEG	4
C317,318			CC45FSL1H680J	CERAMIC 68PF J	M	3
C317,318			CC45FSL1H680J	CERAMIC 68PF J	YM	4
C317,318			CC45FSL1H680J	CERAMIC 68PF J	M	2
C319,320			CE04LW1A101M	ELECTRO 100UF 10WV		
C321,322			CC73FSL1H681J	CHIP C 680PF J	M	3
C321,322			CC73FSL1H681J	CHIP C 680PF J	YM	4
C321,322			CC73FSL1H681J	CHIP C 680PF J	M	2
C321,322			CK73FB1H102K	CHIP C 1000PF K	KRP	3
C321,322			CK73FB1H102K	CHIP C 1000PF K	KRP	4
C321,322			CK73FB1H102K	CHIP 1000PF K		1
C321,322			CK73FB1H152K	CHIP C 1500PF K	XTEG	3
C321,322			CK73FB1H152K	CHIP C 1500PF K	XTEG	4
C331,332			CE04LW1C470M	ELECTRO 47UF 16WV		
C333			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C334			CE04LW1H101M	ELECTRO UF 50WV		
CN1			E40-4796-05	PIN ASSY		
CN2		*	E40-4857-05	PIN ASSY		
CN301,302			E40-4810-05	SOCKET FOR PIN ASSY		
		*	J19-3759-13	HOLDER	M	2
		*	J19-3782-03	HOLDER		1
-		*	J19-3782-03	HOLDER		
X1			L77-2111-05	CRYSTAL RESONATOR(32.768kHz)		
X2			L78-0605-05	RESONATOR (8.38MHz)		
CP1			R90-0803-05	MULTI-COMP 100KX7 J 1/4W		
CP2			R90-0864-05	MULTI-COMP 100KX14		
CP3			R90-0820-05	MULTI-COMP 47K X12		
R3			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R7			RK73FB2A101J	CHIP R J 1/10W		
R12			RK73FB2A101J	CHIP R J 1/10W		4
R13 -15			RK73FB2A101J	CHIP R J 1/10W		
R17 ,18			RK73FB2A101J	CHIP R J 1/10W		
R28 -31			RK73FB2A101J	CHIP R J 1/10W		
R48			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R50			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R51			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R52			RK73FB2A103J	CHIP R 10K J 1/10W		
R53			RK73FB2A104J	CHIP R 100K J 1/10W		
R54 ,55			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R67 -72			RK73FB2A104J	CHIP R 100K J 1/10W		

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NO. 25

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R74			RK73FB2A104J	CHIP R 100K J 1/10W		
R75			RK73FB2A473J	CHIP R 47K J 1/10W		
R76			RK73FB2A101J	CHIP R 100 J 1/10W		
R79			RK73FB2A474J	CHIP R 470K J 1/10W		
R80			RK73FB2A475K	CHIP R 4.7M K 1/10W		
R81 ,82			RK73FB2A101J	CHIP R 100 J 1/10W		
R84			RK73FB2A101J	CHIP R 100 J 1/10W		
R85 -87			RK73FB2A103J	CHIP R 10K J 1/10W		
R91 ,92			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R93			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R95 ,96			RK73FB2A103J	CHIP R 10K J 1/10W		
R97 -103			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R106			RK73FB2A101J	CHIP R 100 J 1/10W		
R121			RK73FB2A223J	CHIP R 22K J 1/10W		
R123			RK73FB2A223J	CHIP R 22K J 1/10W		
R125			RK73FB2A223J	CHIP R 22K J 1/10W		
R127			RK73FB2A223J	CHIPR 22K J 1/10W		
R129			RK73FB2A223J	CHIPR 22K J 1/10W		
R131			RK73FB2A223J	CHIPR 22K J 1/10W		
R133			RK73FB2A223J	CHIPR 22K J 1/10W		
R134			RK73FB2A103J	CHIPR 10K J 1/10W		
R135			RK73FB2A223J	CHIPR 22K J 1/10W		
R136			RK73FB2A103J	CHIPR 10K J 1/10W		
R137			RK73FB2A223J	CHIPR 22K J 1/10W		
R138			RK73FB2A103J	CHIPR 10K J 1/10W		
R139			RK73FB2A223J	CHIPR 22K J 1/10W		
R141			RK73FB2A223J	CHIPR 22K J 1/10W		
R143			RK73FB2A223J	CHIPR 22K J 1/10W		
R145			RK73FB2A223J	CHIPR 22K J 1/10W		
R147			RK73FB2A223J	CHIPR 22K J 1/10W		
R148			RK73EB2B103J	CHIPR 10K J 1/8W		
R149			RK73FB2A223J	CHIPR 22K J 1/10W		
R150			RK73FB2A103J	CHIPR 10K J 1/10W		
R152			RK73FB2A223J	CHIPR 22K J 1/10W	M	3
R152			RK73FB2A223J	CHIPR 22K J 1/10W	YM	4
R152			RK73FB2A223J	CHIPR 22K J 1/10W	M	
R154			RK73FB2A364J	CHIPR 360K J 1/10W		
R155,156			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R157			RK73FB2A364J	CHIPR 360K J 1/10W		
R158			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R159			RK73FB2A364J	CHIPR 360K J 1/10W		
R164			RK73FB2A364J	CHIPR 360K J 1/10W		
R165,166			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R167			RK73FB2A364J	CHIPR 360K J 1/10W		
R168			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R169,170			RK73FB2A364J	CHIPR 360K J 1/10W		
R171,172			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R173			RK73FB2A364J	CHIPR 360K J 1/10W		
R174			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R175,176			RK73FB2A364J	CHIPR 360K J 1/10W		
R177,178			RK73FB2A472J	CHIPR 4.7K J 1/10W		
R179			RK73FB2A364J	CHIPR 360K J 1/10W		
R180			RK73FB2A362J	CHIPR 3.6K J 1/10W		
R181			RK73FB2A364J	CHIPR 360K J 1/10W		
R194			RK73FB2A104J	CHIPR 100K J 1/10W		

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NO. 26

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R301			RK73FB2A101J	CHIP R 100 J 1/10W		
R307,308			RK73FB2A101J	CHIP R 100 J 1/10W		3
R307,308			RK73FB2A101J	CHIP R 100 J 1/10W		4
R307,308			RK73FB2A101J	CHIP R 100 J 1/10W	M	2
R309,310			RK73FB2A301J	CHIP R 300 J 1/10W		3
R309,310			RK73FB2A301J	CHIP R 300 J 1/10W		4
R309,310			RK73FB2A301J	CHIP R 300 J 1/10W	M	2
R311,312			RK73FB2A471J	CHIP R 470 J 1/10W		3
R311,312			RK73FB2A471J	CHIP R 470 J 1/10W		4
R311,312			RK73FB2A471J	CHIP R 470 J 1/10W	M	2
R313,314			RK73FB2A152J	CHIP R 1.5K J 1/10W		3
R313,314			RK73FB2A152J	CHIP R 1.5K J 1/10W		4
R313,314			RK73FB2A152J	CHIP R 1.5K J 1/10W	M	2
R315,316			RK73FB2A103J	CHIP R 10K J 1/10W		
R317,318			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R319			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R321			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R325,326			RK73FB2A103J	CHIP R 10K J 1/10W		
R327,328			RK73FB2A102J	CHIP R 1.0K J 1/10W		
⚠ R340,341			RD14NB2E470J	RD 47 J 1/4W		
R347			RD14NB2E101J	RD 100 J 1/4W		
R351,352			RK73FB2A104J	CHIP R 100K J 1/10W		
W202,203			R92-0670-05	CHIP R 0 OHM		
W205			R92-0670-05	CHIP R 0 OHM		
W207			R92-0679-05	CHIP R 0 OHM		
W209			R92-0670-05	CHIP R 0 OHM		
W210			R92-0679-05	CHIP R 0 OHM		
W215			R92-0670-05	CHIP R 0 OHM		
W216,217			R92-0679-05	CHIP R 0 OHM		
W223			R92-0670-05	CHIP R 0 OHM		
W225			R92-0670-05	CHIP R 0 OHM		
W401,402			R92-0670-05	CHIP R 0 OHM		1
S1-8			31-05	TACT SWITCH		3
S9			31-05	TACT SWITCH		4
S9			31-05	TACT SWITCH	M	2
S10			31-05	TACT SWITCH		1
S11			31-05	TACT SWITCH		4
S11			31-05	TACT SWITCH	M	2
S12			31-05	TACT SWITCH		3
S13			31-05	TACT SWITCH		4
S13			31-05	TACT SWITCH	M	2
S14-32			31-05	TACT SWITCH		1
S33			T99-0559-05	ROTARY ENCODER VOLUME CONTROL		
D1-15			HSS104A	DIODE		
D1-15			1SS131	DIODE		
D16			MA111	DIODE	M	3
D16			MA111	DIODE	YM	4
D16			MA111	DIODE	M	2
D17			HSS104A	DIODE	XTEG	4
D17			HSS104A	DIODE	XTEG	3
D17			1SS131	DIODE	XTEG	4
D17			1SS131	DIODE	XTEG	3
D18			HSS104A	DIODE	KRPM	3

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NO. 27

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D18			1SS131	DIODE	KRPM	3
D18 ,19			HSS104A	DIODE		1
D18 ,19			HSS104A	DIODE	M	2
D18 ,19			1SS131	DIODE		1
D18 ,19			1SS131	DIODE	M	2
D19			HSS104A	DIODE	EG	4
D19			1SS131	DIODE	EG	4
D20			HSS104A	DIODE	T	4
D20			HSS104A	DIODE	T	3
D20			1SS131	DIODE	T	4
D20			1SS131	DIODE	T	3
D21			HSS104A	DIODE	MXEG	3
D21			HSS104A	DIODE	YMXEG	4
D21			HSS104A	DIODE	M	2
D21			1SS131	DIODE	MXEG	3
D21			1SS131	DIODE	YMXEG	4
D21			1SS131	DIODE	M	2
D22			MA111	DIODE	M	3
D22			MA111	DIODE	YM	4
D22			MA111	DIODE	M	2
D23			HSS104A	DIODE	XEG	3
D23			HSS104A	DIODE	XEG	4
D23			1SS131	DIODE	XEG	3
D23			1SS131	DIODE	XEG	4
D24 -27			MA111	DIODE		
D28 -39			HSS104A	DIODE		
D28 -39			1SS131	DIODE		
D40 -43			MA111	DIODE		
D44			HSS104A	DIODE		
D44			1SS131	DIODE		
D50 -55			HSS104A	DIODE		
D50 -55			1SS131	DIODE		
D68			HZS5.1N(B2)	ZENER DIODE		
D68			RD5.1ES(B2)	ZENER DIODE		
D68			UZ-5.1BSB	ZENER DIODE		4
D68			UZ-5.1BSB	ZENER DIODE	M	2
D72			HSS104A	DIODE		
D72			1SS131	DIODE		
D73 ,74			MA111	DIODE		
D75 -80			HSS104A	DIODE		
D75 -80			1SS131	DIODE		
D301			HZS3.9N(B2)	ZENER DIODE		
D301			RD3.9ES(B2)	ZENER DIODE		
D301			UZ-3.9BSB	ZENER DIODE		4
D301			UZ-3.9BSB	ZENER DIODE	M	2
ED1		✻	BJ344GK	INDICATOR TUBE		
ED1		✻	FIP8AMW6R	INDICATOR TUBE		
IC1		✻	M38198MC-053FP	MI-COM IC		
IC2		✻	NJU3718G	MOS-IC		
IC3		✻	PST993D-T	ANALOGUE IC		
IC3			S-806D-Z	ANALOGUE IC		
IC4 ,5			NJM4565D	IC(OP AMP X2)		
IC301			NJM4565D-D	IC(OP AMP X2)		
Q1 -8			2SC4081	TRANSISTOR		
Q9 -24			2SA1576	TRANSISTOR	M	3

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NO. 28

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q9 -24			2SA1576	TRANSISTOR	YM	4
Q9 -24			2SA1576	TRANSISTOR	M	2
Q10 -24			2SA1576	TRANSISTOR		3
Q10 -24			2SA1576	TRANSISTOR		4
Q10 -24			2SA1576	TRANSISTOR		1
Q301,302			2SC1845(F,E)	TRANSISTOR		3
Q301,302			2SC1845(F,E)	TRANSISTOR		4
Q301,302			2SC1845(F,E)	TRANSISTOR	M	2
Q303-306			2SC2878(B)	TRANSISTOR		
Q307-310			2SC1845(F,E)	TRANSISTOR		
Q311,312			2SA992(F,E)	TRANSISTOR		
Q313			2SA1048(Y,GR)	TRANSISTOR		
Q313			2SA1175(F,E)	TRANSISTOR		
Q313			2SA1309A(Q,R)	TRANSISTOR		
Q313			2SA933S(Q,R)	TRANSISTOR		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1191-05	ELECTRIC CIRCUIT MODULE		
RECORD/ PLAY BACK UNIT (X28-)						
C1 ,2			CK45FB1H681K	CERAMIC 680PF K		
C3 ,4			CE04LW1V100M	ELECTRO 10UF 35WV		
C5 ,6			CK45FB1H391K	CERAMIC 390PF K		
C7 ,8			CE04LW1C470M	ELECTRO 47UF 16WV		
C9 ,10			CQ93FMG1H153J	MYLAR 0.015UF J		
C11 ,12			CK45FB1H222K	CERAMIC 2200PF K		
C13 -16			CC45FSL1H221J	CERAMIC 220PF J		
C19 ,20			CK45FB1H681K	CERAMIC 680PF K		
C21 ,22			CE04LW1V100M	ELECTRO 10UF 35WV		
C23 ,24			CK45FB1H391K	CERAMIC 390PF K		
C25 ,26			CE04LW1C470M	ELECTRO 47UF 16WV		
C27 ,28			CQ93FMG1H223J	MYLAR 0.022UF J		
C29 ,30			CK45FB1H682K	CERAMIC 6800PF K		
C31 ,32			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C33 ,34			CQ93FMG1H333J	MYLAR 0.033UF J		
C35 ,36			CK45FB1H222K	CERAMIC 2200PF K		
C37 -40			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C41 ,42			CQ93FMG1H393J	MYLAR 0.039U F J		
C43 ,44			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C45 ,46			CE04LW1V100M	ELECTRO 10UF 35WV		
C47 ,48			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C49 ,50			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C51 ,52			CE04LW1A101M	ELECTRO 100UF 10WV		
C53 ,54			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C55 ,56			C91-1436-05	FILM 220PF J		
C57 ,58			C91-1434-05	FILM 150PF J		
C59 -62			CK45FF1H223Z	CERAMIC 0.022UF Z		
C63 ,64			CK45FB1H561K	CERAMIC 560PF K		
C65 ,66			CK45FF1H103Z	CERAMIC 0.010UF Z		
C101			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C102			CE04LW1C220M	ELECTRO 22UF 16WV		
C103			CE04LW1C101M	ELECTRO 100UF 16WV		
C104			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C105			CQ93FMG1H103J	MYLAR 0.010UF J		
C106			CK45FB2H471K	CERAMIC 470PF K		
C107			CQ93HP2A103J	MYLAR 0.010UF J		

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NO. 29

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C108			CC45FSL2H100D	CERAMIC 10PF D		
C109			CE04LW1V100M	ELECTRO 10UF 35WV		
C110			CQ93FMG1H103J	MYLAR 0.010UF J		
C111,112			CQ93FMG1H562J	MYLAR 5600PF J		
C113			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C114,115			CK45FF1H103Z	CERAMIC 0.010UF Z		
C116,117			CE04LW1C101M	ELECTRO 100UF 16WV		
C118			CK45FF1H103Z	CERAMIC 0.010UF Z		
C119			CC45FSL1H271J	CERAMIC 270PF J		
C120			CC45FSL1H271J	CERAMIC 270PF J		
CN1			E40-3247-05	PIN ASSY		
CN2			E40-3249-05	PIN ASSY		
CN3 ,4			E40-4609-05	PIN ASSY		
CN5			E40-0512-05	PIN ASSY		
CN6			E40-4804-05	SOCKET FOR PIN ASSY		
L1 -4			L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)		
L5 ,6			L79-1201-05	LC FILTER		
L7 ,8			L32-0547-05	BIAS OSCILATING COIL		
L9			L32-0570-05	BIAS OSCILATING COIL		
⚠ R120			RD14NB2E100J	RD 10 J 1/4W		
⚠ R165			RD14NB2E100J	RD 10 J 1/4W		
VR1 ,2			R12-0606-05	TRIMMING POT.(330)		
VR3 ,4			R12-0605-05	TRIMMING POT.(220)		
VR7 ,8			R12-1619-05	TRIMMING POT.(4.7K)		
VR52			R12-1619-05	TRIMMING POT.(4.7K)		
K1			S51-2089-05	MAGNETIC RELAY		
K1			18-05	MAGNETIC RELAY		
D1 ,2			HSS104	DIODE		
D1 ,2			1SS133	DIODE		
D4 -6			HSS104	DIODE		
D4 -6			1SS133	DIODE		
D7			RD2.7ES(B2)	ZENER DIODE		
D7			UZ-2.7BSB	ZENER DIODE		
D8			HSS104	DIODE		
D8			1SS133	DIODE		
IC1 ,2			TA8125S	IC(2CH PRE AMP)		
IC3			HA12182F	ANALOGUE IC		
IC4			UPC1297CA	IC(DOL HX PRO SYSTEM)		
IC5			BA10393	IC(DUAL COMPALATOR)		
IC6 ,7			BU4094BC	MOS-IC		
Q1 ,2			DTC124ES	DIGITAL TRANSISTOR		
Q1 ,2			UN4212	TRANSISTOR		
Q3 ,4			2SD1302(S,T)	TRANSISTOR		
Q3 ,4			2SD1450(S,T)	TRANSISTOR		
Q51			DTC124ES	DIGITAL TRANSISTOR		
Q51			UN4212	TRANSISTOR		
Q52			2SC1740S(Q,R)	TRANSISTOR		
Q52			2SC2458(Y,GR)	TRANSISTOR		
Q52			2SC2785(F,E)	TRANSISTOR		
Q52			2SC3311A(Q,R)	TRANSISTOR		
Q53			DTA124ES	DIGITAL TRANSISTOR		
Q53			UN4112	TRANSISTOR		
Q54 ,55			2SC1845(F,E)	TRANSISTOR		

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NO. 30

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q56 ,57			2SC1740S(Q,R)	TRANSISTOR		
Q56 ,57			2SC2458(Y,GR)	TRANSISTOR		
Q56 ,57			2SC2785(F,E)	TRANSISTOR		
Q56 ,57			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q58			2SC3940A(R,S)	TRANSISTOR		
Q59			2SC1740S(Q,R)	TRANSISTOR		
Q59			2SC2458(Y,GR)	TRANSISTOR		
Q59			2SC2785(F,E)	TRANSISTOR		
Q59			2SC3311A(Q,R)	TRANSISTOR		
Q60			2SA992(F,E)	TRANSISTOR		
Q61			DTC124ES	DIGITAL TRANSISTOR		
Q61			UN4212	TRANSISTOR		
Q63 -65			2SC3246	TRANSISTOR		
CD PLAYER UNIT (X32-)						
C1			CQ93FMG1H103J	MYLAR 0.010UF J		
C2			CQ93FMG1H472J	MYLAR 4700PF J		
C3			CC45FSL1H470J	CERAMIC 47PF J		
C4			CF92FV1H474J	MF-C 0.47UF J		
C5			CE04LW1A101	M ELECTRO 10UF 10WV		
C6			CQ93FMG1H104J	MYLAR 0.10UF J		
C7			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C8			CQ93FMG1H104J	MYLAR 0.10UF J		
C9			CQ93FMG1H333J	MYLAR 0.033UF J		
C10			CC45FSL1H101J	CERAMIC 100PF J		
C11			CQ93FMG1H102J	MYLAR 1000PF J		
C12			CC45FSL1H221J	CERAMIC 220PF J		
C13			CQ93FMG1H473J	MYLAR 0.047UF J		
C14			CE04LW1V100M	ELECTRO 10UF 35WV		
C15			CE04HW1E100M	NP-ELEC 10UF 25WV		
C16 -18			CQ93FMG1H103J	MYLAR 0.010UF J		
C19			CQ93FMG1H333J	MYLAR 0.033UF J		
C20			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04LW1A101M	ELECTRO 10UF 10WV		
C23			CF92FV1H224J	MF-C 0.22UF J		
C24 ,25			CE04LW1A101M	ELECTRO 100UF 10WV		
C26			CC45FSL1H270J	CERAMIC 27PF J		
C27			CQ93FMG1H222J	MYLAR 2200PF J		
C28			CQ93FMG1H333J	MYLAR 0.033UF J		
C29			CQ93FMG1H103J	MYLAR 0.010UF J		
C30			CQ93FMG1H222J	MYLAR 2200PF J		
C35 ,36			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C37			CE04LW1A470M	ELECTRO 47UF 10WV		
C38			CQ93FMG1H332J	MYLAR 3300PF J		
C39			CK45FF1H103Z	CERAMIC 0.010UF Z		
C40			CQ93FMG1H473J	MYLAR 0.047UF J		
C41			CQ93FMG1H152J	MYLAR 1500PF J		
C42			CQ93FMG1H103J	MYLAR 0.010UF J		
C43			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C45			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C46			CE04LW1A470M	ELECTRO 47UF 10WV		
C55			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C56			CE04LW1A331M	ELECTRO 330UF 10WV		
C57 ,58			CC45FSL1H221J	CERAMIC 220PF J		

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NO. 31

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
C59 -62			CQ93FMG1H391K	MYLAR 390PF K		
C63 ,64			CQ93FMG1H222J	MYLAR 2200PF J		
C65 ,66			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C67			CE04LW1A101M	ELECTRO 100UF 10WV		
C68 ,69			CE04LW1A471M	ELECTRO 470UF 10WV		
C70			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C71			CE04LW1A470M	ELECTRO 47UF 10WV		
C72			CE04LW1C470M	ELECTRO 47UF 16WV		
C73			CK45FF1H223Z	CERAMIC 0.022UF Z		
C74 ,75			CE04LW1V100M	ELECTRO 10UF 35WV		
C76			CC45FSL1H331J	CERAMIC 330PF J		
C77			CC45FSL1H271J	CERAMIC 270PF J		
C79 -82			CK45FF1H223Z	CERAMIC 0.022UF Z		
CN1	1I		E40-4856-05	FLAT CABLE CONNCTOR		
CN2			E40-0711-05	PIN ASSY		
CN3			E40-4377-05	PIN ASSY		
CN4			E40-4763-05	PIN ASSY		
CN5			E40-3247-05	PIN ASSY		
CN6			E40-4762-05	PIN ASSY		
CN7	1J		E40-4173-05	FLAT CABLE CONNCTOR		
			J11-0098-05	WIRE CLAMPER		
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
X1			L78-0299-05	RESONATOR (16.93M)		
VR1			R12-3688-05	TRIMMING POT.(47K)		
VR3			R12-3685-05	TRIMMING POT.(10K)		
VR4			R12-3687-05	TRIMMING POT.(33K)		
D1 -6			HSS104	DIODE		
D1 -6			1SS133	DIODE		
D7			HZS3.3N(B2)	ZENER DIODE		
D7			MTZJ3.3(B)	ZENER DIODE		
D7			RD3.3ES(B2)	ZENER DIODE		
D10 ,11			HSS104	DIODE		
D10 ,11			1SS133	DIODE		
IC1			CXA1782BQ	MOS-IC		
IC2		*	CXD2508AQ	MOS-IC		
IC3			BA6398FP	ANALOGUE IC		
IC4 ,5			TA8409S	IC(MOTOR CONTROL)		
IC6		*	BU4094BC	MOS-IC		
IC7			NJM2100D	ANALOGUE IC		
IC8			M5237L	ANALOGUE IC		
Q1			2SC1740S(Q,R)	TRANSISTOR		
Q1			2SC2458(Y,GR)	TRANSISTOR		
Q1			2SC2785(F,E)	TRANSISTOR		
Q1			2SC3311A(Q,R)	TRANSISTOR		
Q2			2SA954(L,K)	TRANSISTOR		
Q3			DTA124ES	DIGITAL TRANSISTOR		
Q3			UN4112	TRANSISTOR		
Q4			2SA954(L,K)	TRANSISTOR		
Q5			2SC1740S(Q,R)	TRANSISTOR		
Q5			2SC2458(Y,GR)	TRANSISTOR		
Q5			2SC2785(F,E)	TRANSISTOR		
Q5			2SC3311A(Q,R)	TRANSISTOR		

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NO. 32

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ Q6			2SA1534A(R,S)	TRANSISTOR		
Q7			DTC124ES	DIGITAL TRANSISTOR		
Q7			UN4212	TRANSISTOR		
Q8			2SB1375	TRANSISTOR		
Q8			2SB1565(E,F)	TRANSISTOR		
Q9 ,10			2SA1048(Y,GR)	TRANSISTOR		
Q9 ,10			2SA1175(F,E)	TRANSISTOR		
Q9 ,10			2SA1309A(Q,R)	TRANSISTOR		
Q9 ,10			2SA933S(Q,R)	TRANSISTOR		
Q11 ,12			2SC2878(B)	TRANSISTOR		
CD MECHANISM (D40-1412-08)						
101	3B		A10-3119-08	CHASSIS (MAIN)		
102	3A	*	A15-0089-08	FRAME (MD-B)		
105	2A	*	D10-3533-08	SLIDER (LIFT)		
107	2B		D10-3459-08	LEVER (LOCK)		
108	2A		D10-3460-08	LEVER (BRAKE)		
109	2B		D10-3496-08	FRICTION ARM ASSY		
110	2A		D10-3606-08	FEED SHAFT		
113	1A		D13-1599-08	GEAR (IDLER)		
114	2B		D13-1600-08	GEAR (LOAD)		
115	2B		D13-1601-08	GEAR (CENTER)		
117	3A		D13-1603-08	CAM GEAR(UP/DOWN)		
118	1A		D13-1604-08	GEAR (HELICAL)		
119	2A		D13-1720-08	GEAR		
120	2B,3B		D14-0361-08	ROLLER (TRAY)		
122	2B		D15-0366-08	PULLEY (LOAD)		
123	2B		D16-0363-08	DRIVE BELT		
125	2B		D21-1762-08	SHAFT (PULLEY)		
132	1B,2B		E35-0811-08	3P WIRE		
133	1B,3B	*	E35-1184-08	6P WIRE		
134	2A,1B	*	E35-1185-08	6P FLAT WIRE		
135	3A,1B	*	E35-1186-08	6P WIRE (TU-D)		
136	3A,1B	*	E35-1187-08	16P FFC		
137	3A		E40-3264-05	CONNECTOR		
140	1A		F07-0732-08	COVER (TRAY)		
141	2B		F07-0736-08	COVER		
145	3A	*	G01-3806-08	SPRING (MD-G)		
146	3A	*	G01-3807-08	SPRING (MD-H)		
148	3A		G01-3663-08	SPRING (CAM)		
149	2B		G01-3664-08	SPRING (LOCK)		
150	2A		G01-3665-08	SPRING (BRAKE)		
151	2A		G01-3768-08	SPRING (LEFT)		
152	1A,1B		G16-0821-04	SHEET (TRAY)		
153	3B	*	G16-0856-08	FILAMENT TAPE		
155	2A	*	J02-1133-08	INSULATOR		
156	2B		J11-0301-08	CLAMPER		
157	1B	*	J19-3758-08	BRACKET (CLAMP)		
158	2B		J19-3660-08	BRACKET (GEAR)		
159	2B,3B		J19-3661-08	BRACKET (TRAY)		
160	3A		J61-0081-05	SK BINDER SKB-100		
161	1A		J99-0541-08	TRAY (SLIDE)		
162	1A		J99-0542-08	TRAY (ROTARY)		
L			N09-2658-08	SCREW		

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NO. 33

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
M			N09-3053-08	SCREW		
N			N09-3107-08	SCREW		
P			N09-3140-08	SCREW		
Q			N09-3141-08	SCREW		
165	2B		S33-2061-05	LEVER SWITCH		
166	1A,2A		15-08	LEVER SWITCH JPS1220-0201		
167	3A		38-08	LEAF SWITCH		
170	1B		T50-1055-04	YOKE		
171	1B		T99-0544-05	MAGNET		
DM	3A		A11-1082-08	TT CHASSIS ASSY		
FM	3A		T42-0817-08	MOTOR GEAR (FEED)		
LM	3B		T42-0682-08	MOTOR PULLEY ASSY		
PU	3A		41-05	PICKUP (KSS-213B/S-N)		
RTM	2B		T42-0683-08	MOTOR WORM ASSY		
CASSETTE DECK MECHANISM (D40-1427-08)						
401	2C,3D		A10-3174-08	HEAD CHASSIS		
403	1D,3E	*	A10-3240-08	CHSSIS OUTSART ASSY		
404	1D,2E	*	D01-0184-08	FLYWHEEL (LW) ASSY		
405	1E	*	D01-0185-08	FLYWHEEL (A) ASSY		
406	2F	*	D01-0186-08	FLYWHEEL (B) ASSY		
407	1C		D10-3468-08	INTER LOCK ARM (L)(A DECK)		
408	3F		D10-3469-08	INTER LOCK ARM (R)(B DECK)		
409	2D,3F		D10-3470-08	TRIGGER ARM		
410	2D,3F		D10-3471-08	HEAD CHANGE ARM		
412	1C		D10-3476-08	EJECT LEVER (L) (A DECK)		
413	3E		D10-3477-08	EJECT LEVER (R) (B DECK)		
414	2C,3D		D10-3478-08	SELET LEVER		
415	1D,2E		D10-3479-08	SHIFT LEVER		
416	2C,3D		D10-3480-08	C/R LEVER		
420	3C		D13-0981-08	ROTATION GEAR		
421	1C,2D		D13-1616-08	REW GEAR		
422	2C,2D		D13-1617-08	REEL GEAR		
423	1D,2F		D13-1618-08	IDLER GEAR		
424	3C,3D		D13-1621-08	RETURN GEAR		
425	1D,2E		D13-1622-08	CAM GEAR		
426	2D,3E		D14-0367-08	PINCH ARM (R) ASSY		
427	2C,3D		D14-0368-08	PINCH ARM (L) ASSY		
428	1D,2F		D15-0369-08	IDLER PULLEY		
429	2F	*	D16-0393-08	DRIVE BELT (BW)		
430	1E	*	D16-0392-08	DRIVE BELT (AW)		
431	1E	*	D15-0387-08	PULLEY (A)		
432	1E,2F	*	D16-0391-08	CLUTCH BELT		
433	2C,3D		D19-0270-18	REEL CAP (A)		
434	1C,1E		D19-0287-08	CLUTCH ARM ASSY		
439	1E,1F		E35-0396-08	15P FLAT RIBBON WIRE		
440	3C	*	E35-1242-08	3P HEAD WIRE ASSY (A DECK)		
441	3C	*	E35-1243-08	5P HEAD WIRE ASSY (B DECK)		
442	1F		E35-0986-08	MOTOR WIRE		
443	3C		G01-3790-08	EARTH SPRING (B)		
444	2D,3F		G01-3712-08	HEAD CHANGE ARM SP		
445	2C,3D		G01-3709-08	B.T SPRING		
446	1C,2D		G01-3710-08	SHIFT LEVER SP		
447	2D,3F		G01-3711-08	TRIGGER ARM SP		

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NO. 34

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
448	2E,3D		G01-3720-08	HEAD RETURN PLAY SP		
449	1C,3F		G01-3713-08	EJECT SP		
450	2C,3D		G01-3714-08	C/R LEVER SP		
451	2C,3D		G01-3715-08	SELECT LEVER SP		
452	2C,3D		G01-3716-08	SHIFT SP		
453	1C		G01-3717-08	INTER LOCK SP (L)		
454	3C,3D		G01-3718-08	RETURN SP		
455	3C,3D		G01-3719-08	FWD SP		
456	2D,3F		G01-3723-08	INTER LOCK SP (R)		
457	2C,3D		G01-3739-08	HEAD CHSSIS SP		
458	2D,3E		G01-3721-08	BRAKE SP (R)		
459	1C,2E		G01-3722-08	BRAKE SP (L)		
460	1C,2E		G01-3724-08	CLUTCH ARM SPRING (B)		
461	1D,2E		G01-3725-08	CLUTCH SP		
462	1C,2D		G02-0913-08	PACK SPRING		
463	3C		G02-1068-08	AZIMUTH SP (B)		
464	2C,3D	*	G02-1071-08	LIFT BKT		
465	3C		G11-2100-08	HEAD WIRE CLAMP		
466	1D,2F		G11-2205-08	TUBE		
467	2D,3E		G16-0791-08	REFLECT SEAL		
469	3C		J21-6184-08	HEAD PLATE ASSY		
470	1E,2F		J19-3652-08	CABLE HOLDER		
471	2C,3D		J21-6135-08	HEAD RETURN PLATE		
472	1D	*	J21-6307-08	BKT (B) ASSY		
473	2D	*	J21-6308-08	MECHA BKT		
474	2C,3D		J42-0183-08	REEL BUSH		
475	2D,3E		J69-0086-08	FILAMENT TAPE		
476	3C,3D		J39-0188-08	HEAD BASE		
477	2C,3D		J90-0832-08	SHIFT SPRING GUIDE		
AA			N19-1316-08	POLY WASHER		
AB			N19-1354-08	POLY WASHER		
AC			N19-1288-08	POLY WASHER		
AD			N19-1355-08	NYLON WASHER		
AE			N19-1385-08	POLY WASHER		
AF			N19-1386-08	POLY WASHER		
AG			N19-1387-08	TEFRON WASHER		
AH			N19-1388-08	POLY WASHER		
AK			N19-1035-08	POLY WASHER		
AL		*	N19-1396-08	POLY WASHER		
AM			N19-1384-08	POLY WASHER		
S			N09-1497-08	TAP TITE SCREW		
T			N09-2871-08	TAPPING SCREW		
U			N09-2876-08	HEAD SCREW (RVS)		
V			N09-3135-08	BIND TAP TITE SCREW		
W		*	N09-3195-08	TAP TITE SCREW		
Y			N09-2901-08	BIND TAP TITE SCREW		
Z			N09-3112-08	AZIMUTH SCREW		
480	1E,2F		S74-0033-08	REC SWITCH		
481	1E,2F		S74-0042-08	PLAY SWITCH		
484	1E,2F		T94-0233-08	SOLENOID ASSY		
485	1E,2F		T95-0125-08	PHOTO INTERRUPTER		
MM	2F	*	T42-0813-08	MOTOR ASSY		
PH	2C		T31-0066-08	PLAYBACK HEAD MK10P-AB215		
RPEH	3C		R/P ERASE	HEAD YK56R-AA405		

L:Scandinavia **K**: USA **P**: Canada **1**: RXD-F41 **2**: RXD-F42
Y: PX(Far East, Hawaii) **T**: England **E**:Europe **3**: RXD-F3 **4**: RXD-F4
Y:AAFES(Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components.

RXD-F3/F4/F41/F42

SPECIFICATIONS

Amplifier section

Rated power output

54 watts per channel minimum RMS. both channels driven, at 6Ω, 1 kHz with no more than 10 % total harmonic distortion.

Input sensitivity / Impedance	
AUX	200mV/47kΩ
MIC	2.4mV/2.2kΩ
Signal to noise ratio	
AUX	86dB(IHF'66)

FM tuner section

Tuning frequency range	87.5MHz ~ 108MHz
Sensitivity (IHF)	13.2dBf(1.2μV at 75Ω)

AM Tuner section

Tuning frequency range	
9kHz step	531kHz ~ 1,602kHz
10kHz step	530kHz ~ 1,610kHz
Usable sensitivity	12μV/(500μV/m)

Cassette deck section

Track		4-track, 2-channel stereo
Recording system		AC bias system (Frequency: 105 khz)
Heads		
A deck	Playback head	1
B deck	Playback /recording head	1
	Erasing head	1
Motors		1
Fast winding time		Approx. 120 seconds (C-60 tape)

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

CD player section

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Wow & Flutter	Unmeasurable Limit

General

Power consumption	150 W
Dimensions	W : 270mm H : 305mm D : 341mm
Weight (net)	8kg

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Kuala Lumpur, Malaysia

COMPACT DISC STEREO SYSTEM

RXD-C3/C3L

SERVICE MANUAL

(UD-302 main unit)

KENWOOD

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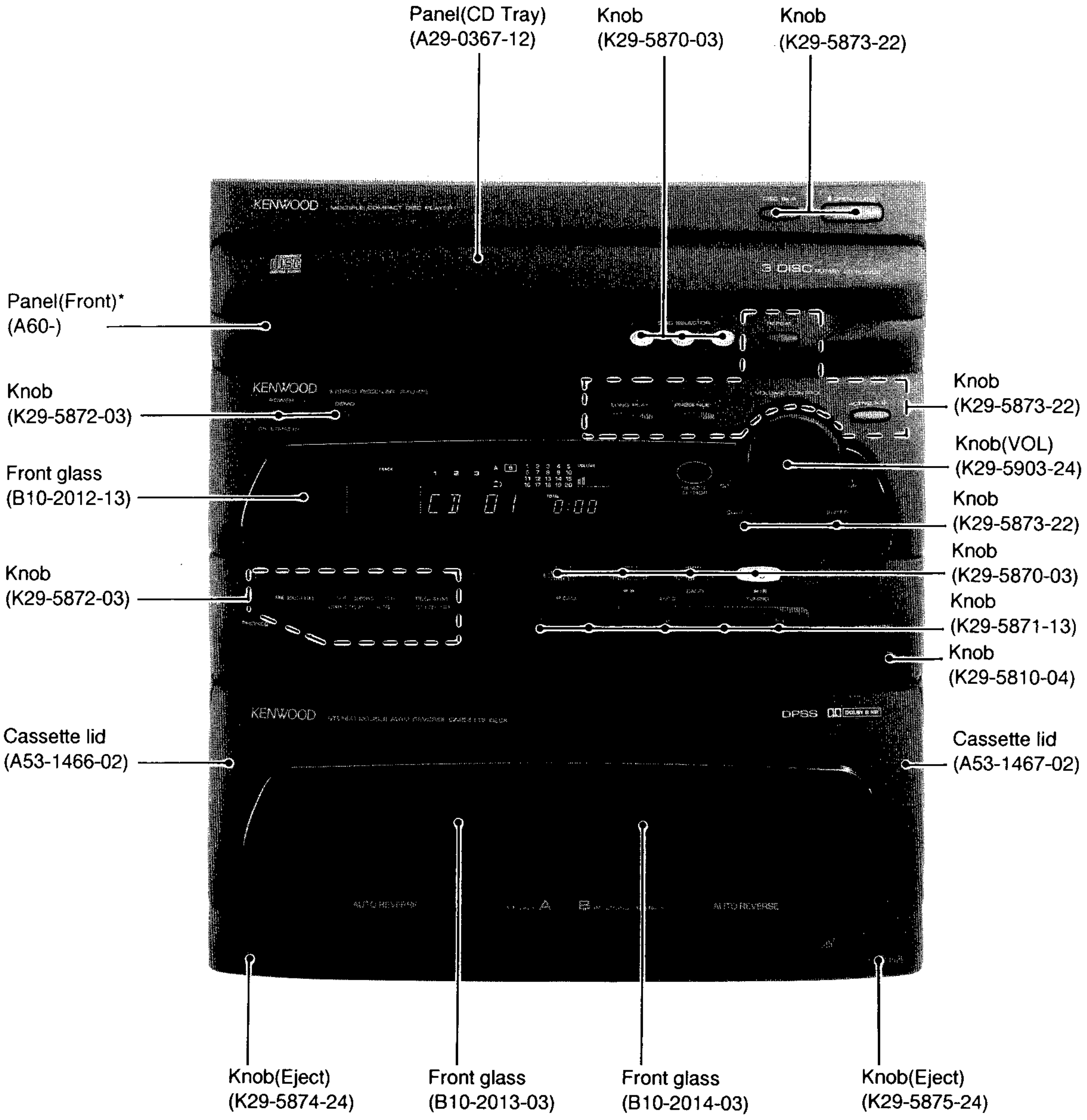
Panel(CD Tray)
(A29-0367-12)
Knob
(K29-5870-03)
Knob
(K29-5873-22)
Panel(Front)*
(A60-)
Knob
(K29-5872-03)
Front glass
(B10-2012-13)
Knob
(K29-5872-03)
Cassette lid
(A53-1466-02)
Knob
(K29-5873-22)
Knob(VOL)
(K29-5903-24)
Knob
(K29-5873-22)
Knob
(K29-5870-03)
Knob
(K29-5871-13)
Knob
(K29-5810-04)
Cassette lid
(A53-1467-02)
Knob(Eject)
(K29-5874-24)
Front glass
(B10-2013-03)
Front glass
(B10-2014-03)
Knob(Eject)
(K29-5875-24)

*Refer to parts list on page 67.

CONTENTS/ACCESSORIES

SYSTEM CONFIGURATION 2
ACCESSORIES 2
REMOTE CONTROL UNIT 4
DISASSEMBLY FOR REPAIR 5
BLOCK DIAGRAM 7
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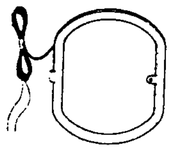
PARTS LIST 67
SPECIFICATIONS .... BACK COVER

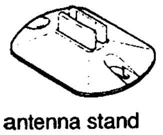
System configuration

SYSTEM NAME	MAIN UNIT	SPEAKER
UD-302	RXD-C3/C3L	LS-C3

Accessories

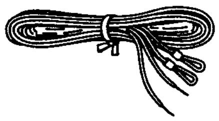
AM loop antenna assy ....(1)
(T90-0195-05)



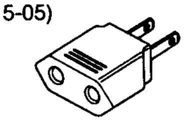


Loop antenna stand
(J19-3645-05)

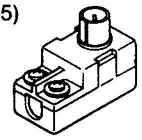
FM indoor antenna ....(1)
(T90-0175-05)



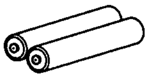
AC plug adaptor ....(1)
(Except for the U.S.A., Canada, Mexico, Europe, U.K. and Australia)
(E03-0115-05)



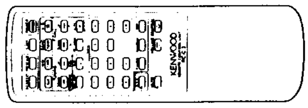
Antenna adaptor
(75Ω/300Ω) ....(1)
(For U.K. and Europe)
(T90-0185-05)



Batteries(R6/AA) ....(2)

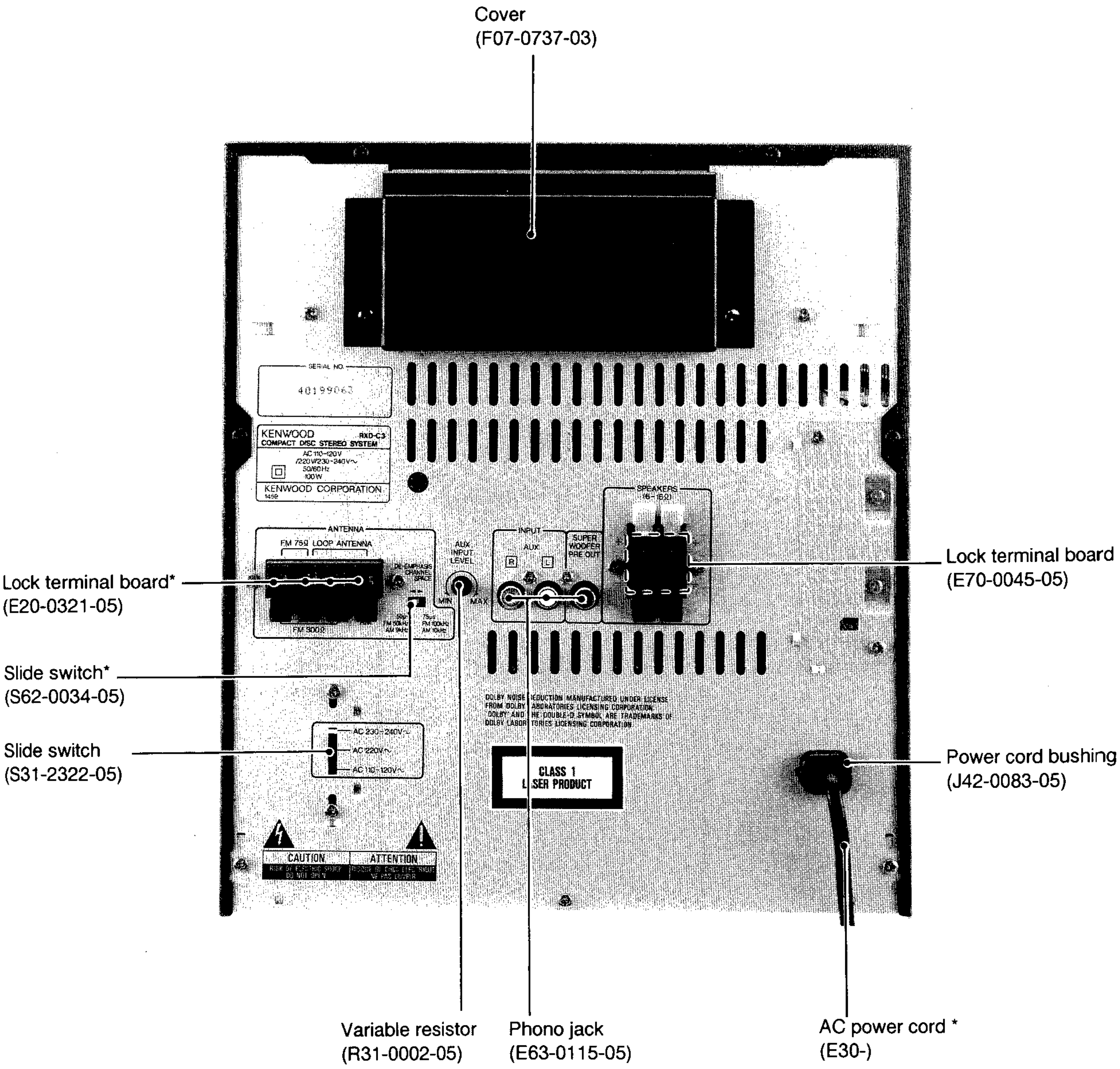


Remote control unit ....(1)
(A70-0978-05)



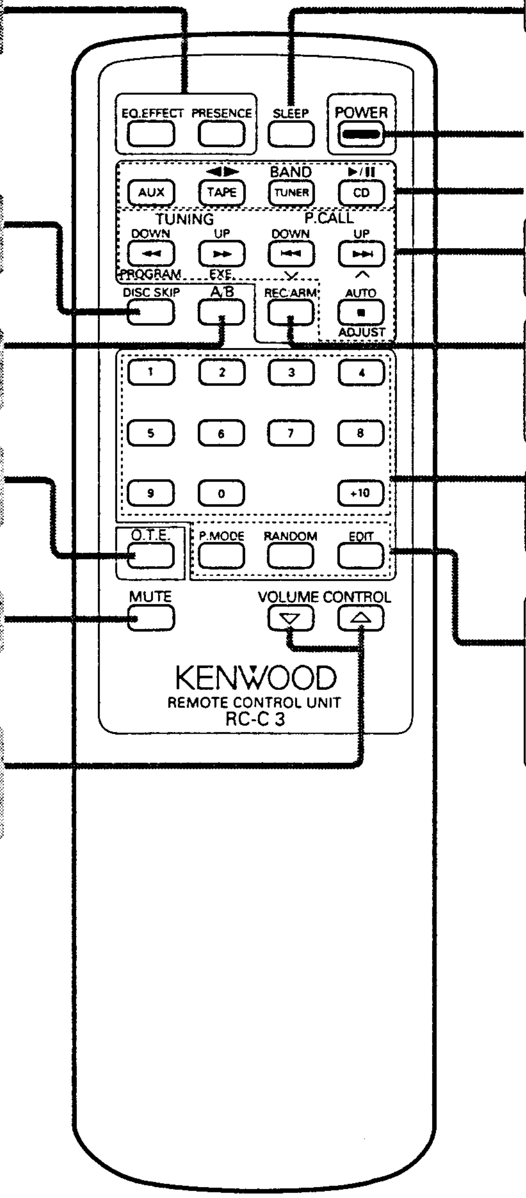
Battery cover : (A09-0170-08)

For the unit with a European AC plug in areas other than Europe.


Cover
(F07-0737-03)
Lock terminal board*
(E20-0321-05)
Slide switch*
(S62-0034-05)
Slide switch
(S31-2322-05)
Lock terminal board
(E70-0045-05)
Power cord bushing
(J42-0083-05)
Variable resistor
(R31-0002-05)
Phono jack
(E63-0115-05)
AC power cord *
(E30-)
KENWOOD
COMPACT DISC STEREO SYSTEM
ANTENNA
INPUT
AUX
SPEAKERS
SUPER WOOFER PRE OUT
AC 230-240V~
AC 220V~
AC 110-120V~
CLASS 1 LASER PRODUCT
CAUTION
ATTENTION

*Refer to parts list on page 67.

REMOT CONTROL UNIT


EQ.EFFECT
PRESENCE
SLEEP
POWER
◄► BAND ►/II
AUX
TAPE
TUNER
CD
TUNING
P.CALL
DOWN
UP
DOWN
UP
PROGRAM
EXE.
∨
∧
DISC SKIP
A/B
REC/ARM
AUTO
ADJUST
1
2
3
4
5
6
7
8
9
0
+10
O.T.E.
P.MODE
RANDOM
EDIT
MUTE
VOLUME CONTROL
KENWOOD
REMOTE CONTROL UNIT
RC-C 3

Graphic equalizer operation keys
EQ.EFFECT: Selects the graphic equalizer effects.
PRESENCE: Selects the sound field effects.

DISC SKIP key
Press to select the disc to be played on the CD player.

A/B key
Press to select the cassette deck to be operated.

O.T.E. (One-Touch Edit) key
Press for example to record the CD track being played.

MUTE key
Press to mute sound temporarily.

VOLUME CONTROL keys
Press to adjust the volume. When these keys are pressed, the display shows the current volume level.

SLEEP key
Press to activate the sleep timer.

POWER key

Input selector (plus basic operations) keys

The functions are variable depending on the input source or the power ON/OFF status.

REC/ARM key
Press to start recording. If the key is pressed during recording, the recording pauses after leaving a non-recorded blank of 4 seconds.

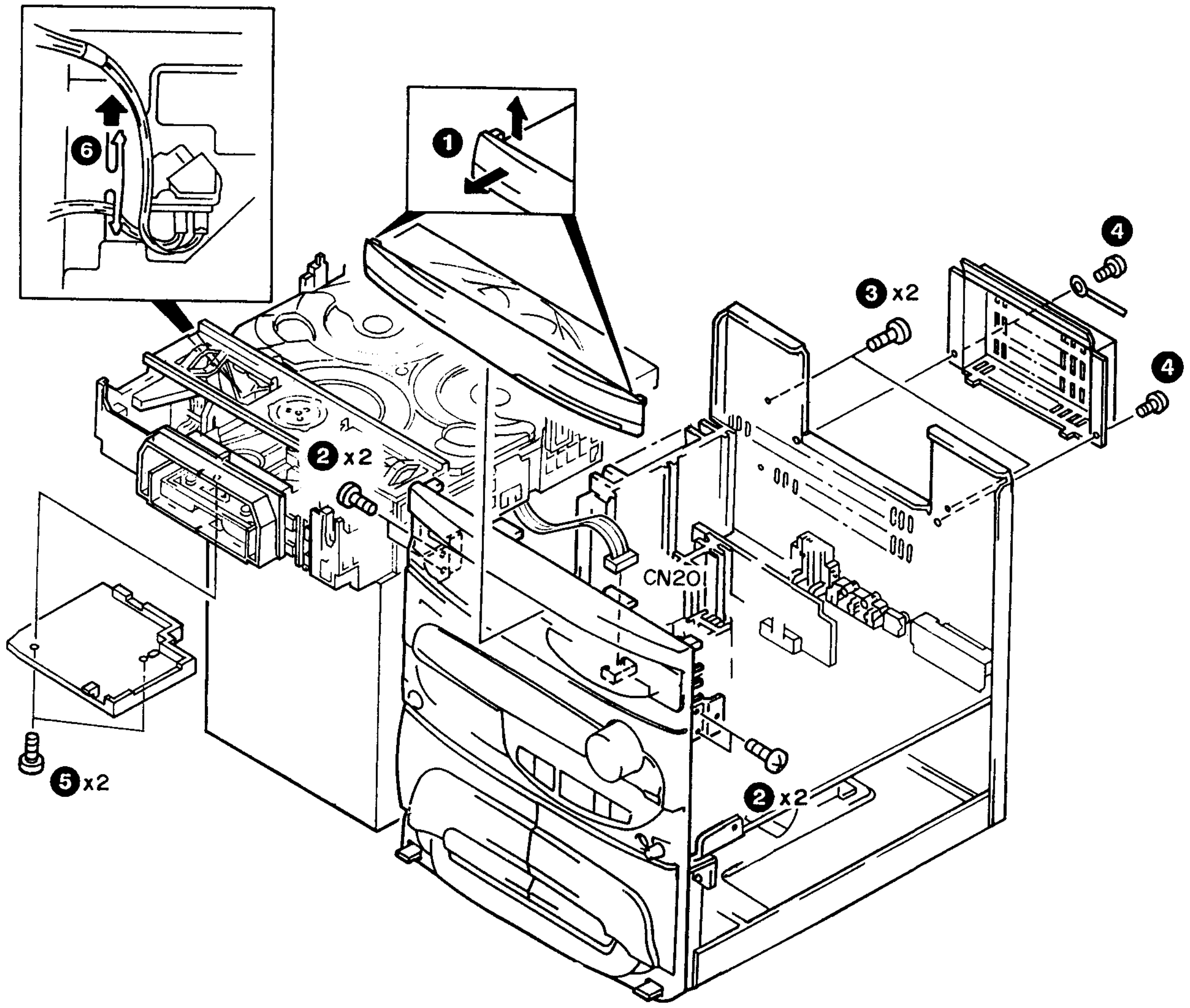
Numeric keys
When the CD input is selected, use as the numeric keys of the CD player.

CD player operation keys
P.MODE: Press to change the play mode.
RANDOM: Press for random playback.
EDIT: Press to activate the EDIT mode.

DISASSEMBLY FOR REPAIR

Removing the CD player

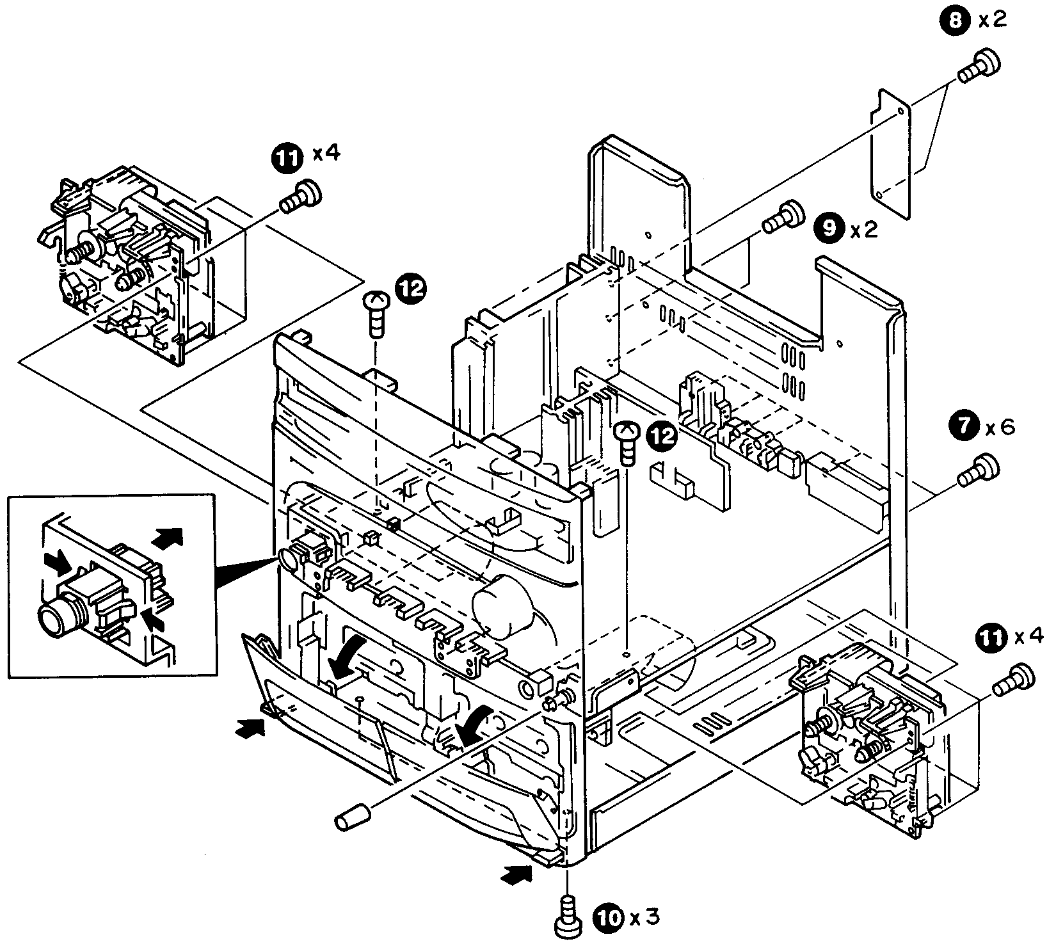
1. While pulling forward (toward you) on (❶)on the left and right sides of the CD player front cover, lift it upward and remove it. Remove the four CD mechanism attachment screws (❷) (front left and right) and the two rear panel screws(❸) .
2. Remove the 2 screws(❹) of CD rear panel cover and remove the cover.
3. Remove the CN201etc. main unit, remove the CD mechanism from the main unit and place it atop the table.
4. Remove the two cover screws(❺)in the bottom of the CD player, remove the cover, remove (pull out) the CN201 lead wires from tab(❻). (Connect CN201etc. while doing repairs.)



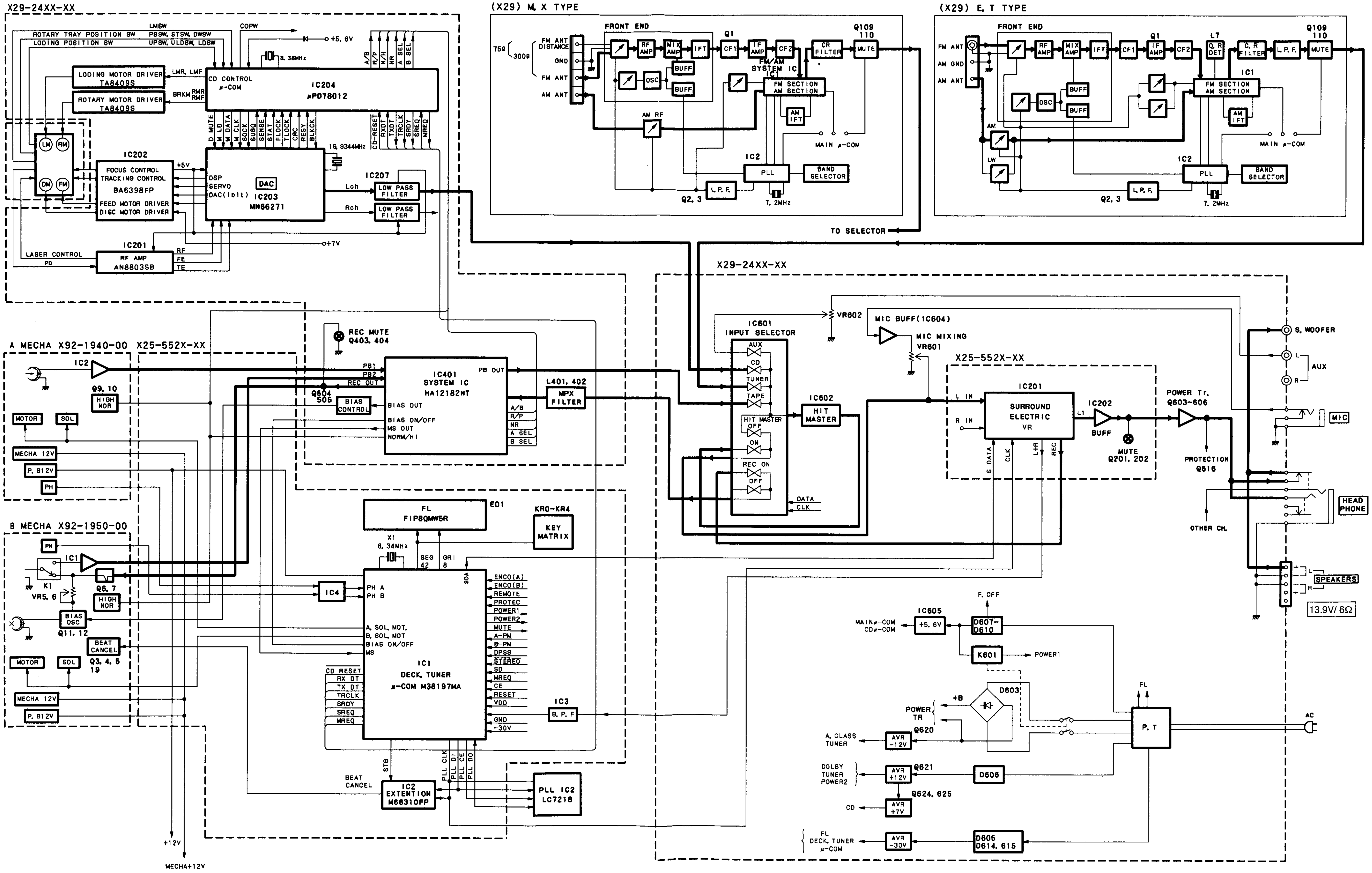
DISASSEMBLY FOR REPAIR

Removing the cassette mechanism and the PC board(X29-).

5. Remove the six rear panel screws(❼), the radiator's two cover screws (❽) and two attachment screws (❾).
6. Remove the three bottom plate screws(❿).
7. Remove the eight cassette mechanism A, B attachment screws(⓫).
8. Open the A, B cassette doors, remove the MIC MIXING knob and remove the two screws (⓬) holding the PC board.
9. Depress both microphone jack tabs (pliers are convenient) and remove the PC board toward the rear panel direction while moving it back and forth (i.e., left and right).

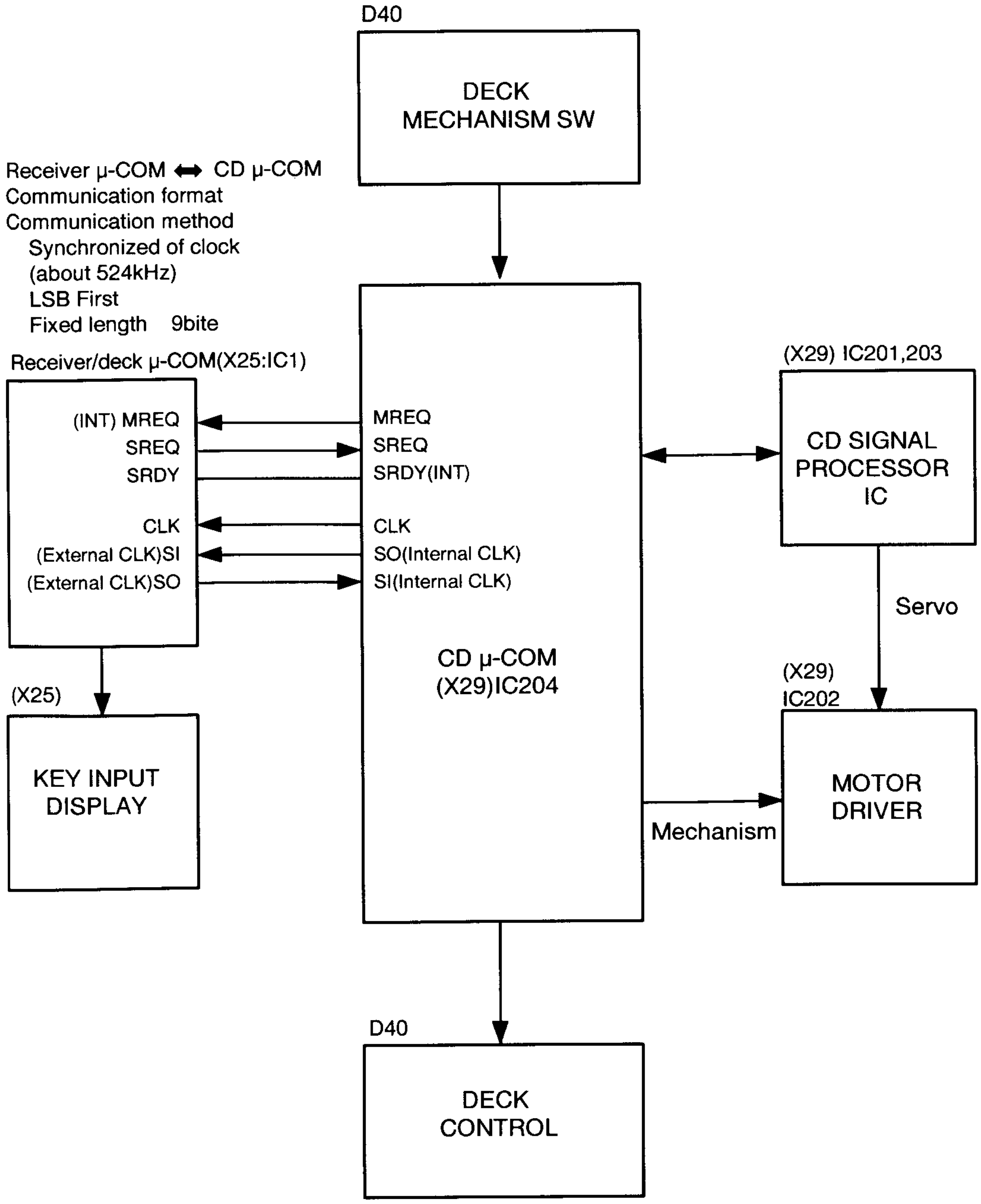


RXD-C3/C3L RXD-C3/C3L
BLOCK DIAGRAM


X29-24XX-XX
ROTARY TRAY POSITION SW
LODING POSITION SW
LMSW
PSSW, STSW, DWSW
UPSW, ULDSW, LDSW
COPW
+5.6V
8.38MHz
LODING MOTOR DRIVER TA8409S
ROTARY MOTOR DRIVER TA8409S
LMR, LMF
BRKM RMR RMF
CD CONTROL µ-COM
IC204 µPD78012
A/B
R/P
N/H
NR
A SEL
B SEL
D MUTE
M LD
M DATA
M CLK
SQCK
SUBQ
SENSE
STAT
FLOCK
TLOCK
CRC
RESY
BLKCK
CD-RESET
RXDT
TXDT
TRCLK
SRDY
SREQ
MREQ
LM
RM
DM
FM
IC202
FOCUS CONTROL TRACKING CONTROL BA6398FP
FEED MOTOR DRIVER DISC MOTOR DRIVER
+5V
16.9344MHz
DSP SERVO DAC(1bit) IC203 MN66271
DAC
IC207
Lch
Rch
LOW PASS FILTER
LOW PASS FILTER
IC201
LASER CONTROL
PD
RF AMP AN8803SB
RF
FE
TE
+7V
(X29) M, X TYPE
FRONT END
75Ω
300Ω
FM ANT DISTANCE
GND
FM ANT
AM ANT
RF AMP
MIX AMP
IFT
CF1
Q1
IF AMP
CF2
CR FILTER
Q109 110
MUTE
OSC
BUFF
BUFF
FM/AM SYSTEM IC
IC1
FM SECTION AM SECTION
AM IFT
AM RF
MAIN µ-COM
IC2
PLL
BAND SELECTOR
L.P.F.
Q2, 3
7.2MHz
TO SELECTOR
(X29) E, T TYPE
FRONT END
FM ANT
AM GND
AM ANT
RF AMP
MIX AMP
IFT
CF1
Q1
IF AMP
CF2
L7
Q.R DET
C.R FILTER
L.P.F.
Q109 110
MUTE
OSC
BUFF
BUFF
AM
LW
IC1
FM SECTION AM SECTION
AM IFT
MAIN µ-COM
IC2
PLL
BAND SELECTOR
L.P.F.
Q2, 3
7.2MHz
X29-24XX-XX
REC MUTE Q403, 404
A MECHA X92-1940-00
X25-552X-XX
IC2
Q9, 10
HIGH NOR
MOTOR
SOL
MECHA 12V
P.B12V
PH
PB1
PB2
REC OUT
Q504 505
BIAS CONTROL
IC401 SYSTEM IC HA12182NT
PB OUT
BIAS OUT
BIAS ON/OFF
MS OUT
NORM/HI
A/B
R/P
NR
A SEL
B SEL
L401, 402
MPX FILTER
B MECHA X92-1950-00
PH
IC1
K1
VR5, 6
Q6, 7
HIGH NOR
BIAS OSC
Q11, 12
BEAT CANCEL
MOTOR
SOL
Q3, 4, 5 19
MECHA 12V
P.B12V
FL
FIP8QMW5R
ED1
KR0-KR4
KEY MATRIX
X1 8.34MHz
SEG 42
GRI 8
SDA
IC4
PH A
PH B
A. SOL, MOT.
B. SOL, MOT
BIAS ON/OFF
MS
IC1 DECK, TUNER µ-COM M38197MA
CD RESET
RX DT
TX DT
TRCLK
SRDY
SREQ
MREQ
ENCO(A)
ENCO(B)
REMOTE
PROTEC
POWER1
POWER2
MUTE
A-PM
B-PM
DPSS
STEREO
SD
MREQ
CE
RESET
VDD
GND
-30V
IC3
B.P.F
STB
BEAT CANCEL
IC2 EXTENTION M66310FP
PLL CLK
PLL DI
PLL CE
PLL DO
PLL IC2 LC7218
+12V
MECHA+12V
VR602
IC601 INPUT SELECTOR
AUX
CD
TUNER
TAPE
HIT MASTER
OFF
ON
REC ON
OFF
DATA
CLK
IC602
HIT MASTER
MIC BUFF(IC604)
MIC MIXING VR601
X25-552X-XX
IC201
L IN
R IN
SURROUND ELECTRIC VR
S DATA
CLK
L+R
REC
L1
IC202
BUFF
MUTE Q201, 202
POWER Tr. Q603-606
PROTECTION Q616
OTHER CH.
S. WOOFER
L
R
AUX
MIC
HEAD PHONE
SPEAKERS
L
R
13.9V/6Ω
F. OFF
IC605
MAIN µ-COM CD µ-COM
+5.6V
D607-D610
K601
POWER1
FL
D603
+B
POWER TR
Q620
A. CLASS TUNER
AVR -12V
P.T
AC
DOLBY TUNER POWER2
AVR +12V
Q621
D606
Q624, 625
CD
AVR +7V
FL DECK, TUNER µ-COM
AVR -30V
D605 D614, 615

CIRCUIT DESCRIPTION

Microproccesor periphery block diagram



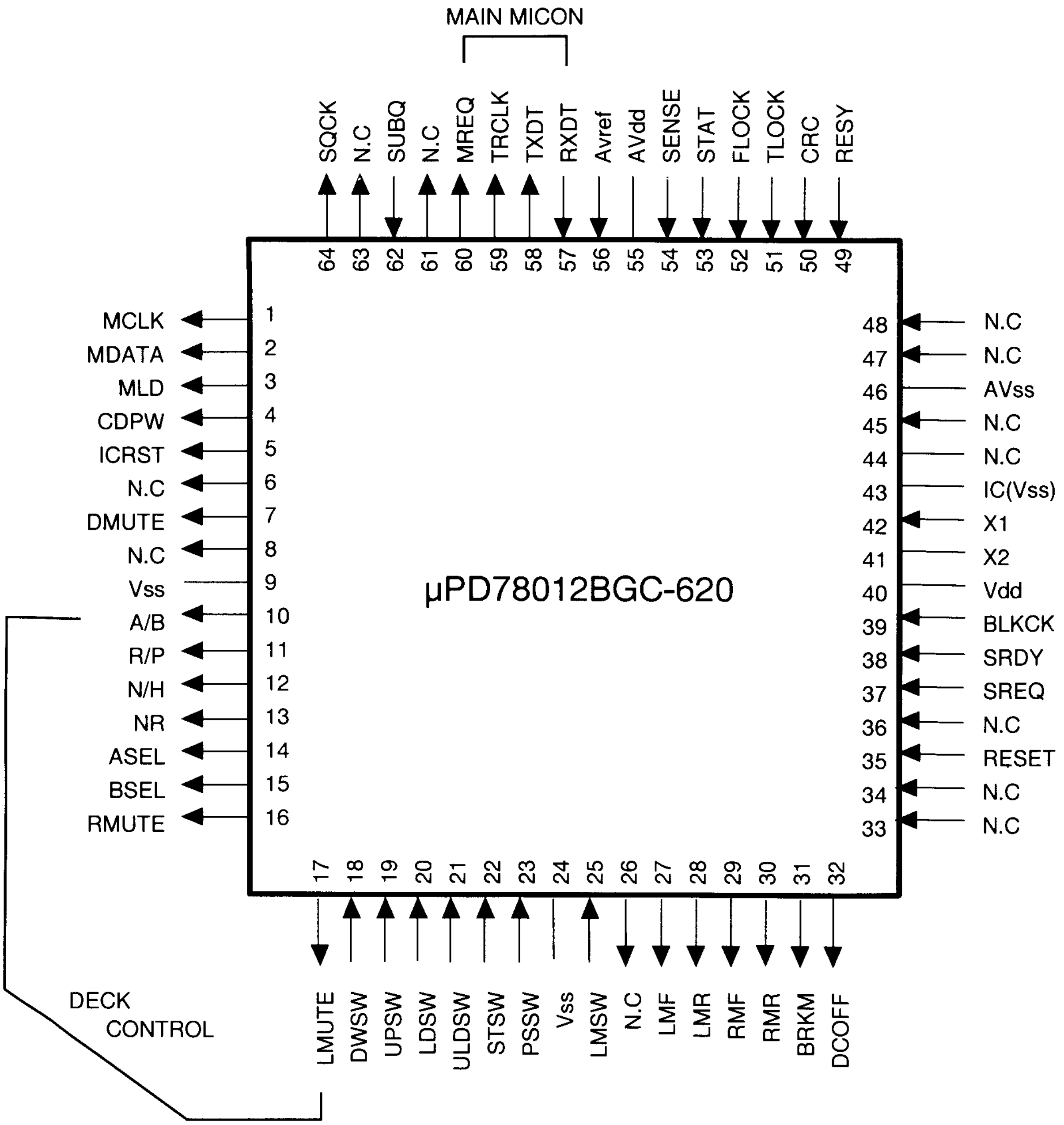
Receiver μ-COM ⬌ CD μ-COM
Communication format
Communication method
Synchronized of clock
(about 524kHz)
LSB First
Fixed length 9bite

D40
DECK MECHANISM SW
Receiver/deck μ-COM(X25:IC1)
(INT) MREQ
SREQ
SRDY
CLK
(External CLK)SI
(External CLK)SO
MREQ
SREQ
SRDY(INT)
CLK
SO(Internal CLK)
SI(Internal CLK)
CD μ-COM
(X29)IC204
(X29) IC201,203
CD SIGNAL PROCESSOR IC
Servo
(X29)
IC202
MOTOR DRIVER
Mechanism
(X25)
KEY INPUT DISPLAY
D40
DECK CONTROL

CIRCUIT DESCRIPTION

CD microprocessor : µPD78012BGC-620(X29 : IC204)

Pin connection diagram


MAIN MICON
SQCK
N.C
SUBQ
N.C
MREQ
TRCLK
TXDT
RXDT
Avref
AVdd
SENSE
STAT
FLOCK
TLOCK
CRC
RESY
64
63
62
61
60
59
58
57
56
55
54
53
52
51
50
49
MCLK 1
MDATA 2
MLD 3
CDPW 4
ICRST 5
N.C 6
DMUTE 7
N.C 8
Vss 9
A/B 10
R/P 11
N/H 12
NR 13
ASEL 14
BSEL 15
RMUTE 16
µPD78012BGC-620
48 N.C
47 N.C
46 AVss
45 N.C
44 N.C
43 IC(Vss)
42 X1
41 X2
40 Vdd
39 BLKCK
38 SRDY
37 SREQ
36 N.C
35 RESET
34 N.C
33 N.C
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
LMUTE
DWSW
UPSW
LDSW
ULDSW
STSW
PSSW
Vss
LMSW
N.C
LMF
LMR
RMF
RMR
BRKM
DCOFF
DECK
CONTROL

N.C : PULL DOWN

CIRCUIT DESCRIPTION

Pin description

Pin No.	Name	I/O	Description
1	MLCK	O	Signal processing IC clock
2	MDATA	O	Signal processing IC data
3	MLD	O	Signal processing IC latch
4	CDPW	O	Signal processing IC power regulation
5	ICRST	O	Signal processing IC reset
6	N.C	O	
7	DMUTE	O	Digital mute
8	N.C	O	
9	Vss		
10	A/B	O	Deck regulation A/B switch
11	R/P	O	Deck reguration RECORD/PLAY
12	N/H	O	Deck reguration NORMAL/HIGH
13	NR	O	Deck reguration NOISE REDUCTION
14	ASEL	O	Deck reguration A SELECT
15	BSEL	O	Deck reguration B SELECT
16	RMUTE	O	Deck reguration REC MUTE
17	LMUTE	O	Deck reguration LINE MUTE
18	DWSW	I	Mechanism down switch
19	UPSW	I	Mechanism up switch
20	LDSW	I	Mechanism load switch
21	ULDSW	I	Mechanism unload switch
22	STSW	I	Mechanism stop switch
23	PSSW	I	Mechanism position switch
24	Vss		GND
25	LMSW	I	Mechanism limit switch
26	N.C	O	
27	LMF	O	Load motor forward
28	LMR	O	Load motor rewind
29	RMF	O	Rotary motor forward
30	RMR	O	Rotary motor rewind
31	BRKM	O	Rotary motor deceleration control
32	DCOFF	O	DC servo ON/OFF control
33	N.C	O	
34	N.C	O	
35	RESET		Reset
36	N.C	I	
37	SREQ	I	Microprocessor communications SREQ
38	SRDY	I	Microprocessor communications SRDY
39	BLKCK	I	Q Data synchronization clock
40	Vdd		+5V

CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Description
41	X2	O	Clock(8.38MHz)
42	X1	I	Clock
43	IC		GND
44	N.C		
45	N.C	I	
46	AVss		A/D GND
47	N.C	O	
48	N.C	O	
49	RESY	I	Spindle servo lock signal
50	CRC	I	Q data CRC check signal
51	TLOCK	I	Tracking lock signal
52	FLOCK	I	Focus lock signal
53	STAT	I	Signal processing IC status signal
54	SENSE	I	Signal processing IC sensing signal
55	AVdd		A/D power supply
56	AVref		A/D reference
57	RXDT	I	Microprocessor communications reception data
58	TXDT	O	Microprocessor communications transmission data
59	TRCLK	O	Microprocessor communications clock
60	MREQ	O	Microprocessor communications MREQ
61	N.C	O	
62	SUBQ	I	Q data
63	N.C	O	
64	SQCK	O	Q data clock

TEST MODE

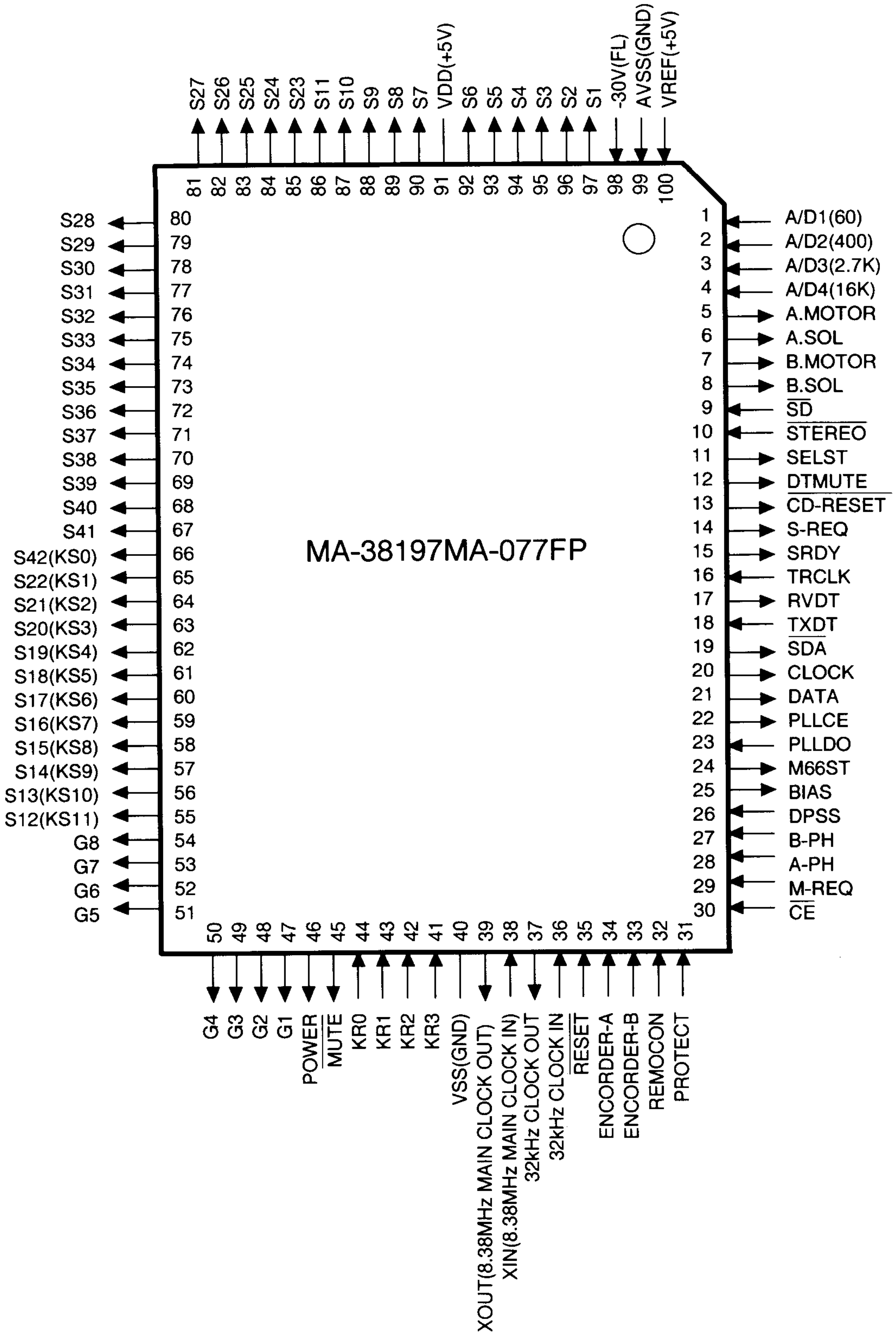
1. CD test mode input method
   While depressing the CD key, plug the power cord into an AC power outlet.

2. Actuation after test mode entry
   a. 1-disc equivalent tray rotation
   b. Disc clamp
   c. TN01, 2, 32 play
   d. Stop

CIRCUIT DESCRIPTION

Receiver/Deck Microprocessor : M38197MA-077FP(X25 : IC1)

1. Pin connection diagram


MA-38197MA-077FP
S27 81
S26 82
S25 83
S24 84
S23 85
S11 86
S10 87
S9 88
S8 89
S7 90
VDD(+5V) 91
S6 92
S5 93
S4 94
S3 95
S2 96
S1 97
-30V(FL) 98
AVSS(GND) 99
VREF(+5V) 100
1 A/D1(60)
2 A/D2(400)
3 A/D3(2.7K)
4 A/D4(16K)
5 A.MOTOR
6 A.SOL
7 B.MOTOR
8 B.SOL
9 SD
10 STEREO
11 SELST
12 DTMUTE
13 CD-RESET
14 S-REQ
15 SRDY
16 TRCLK
17 RVDT
18 TXDT
19 SDA
20 CLOCK
21 DATA
22 PLLCE
23 PLLDO
24 M66ST
25 BIAS
26 DPSS
27 B-PH
28 A-PH
29 M-REQ
30 CE
S28 80
S29 79
S30 78
S31 77
S32 76
S33 75
S34 74
S35 73
S36 72
S37 71
S38 70
S39 69
S40 68
S41 67
S42(KS0) 66
S22(KS1) 65
S21(KS2) 64
S20(KS3) 63
S19(KS4) 62
S18(KS5) 61
S17(KS6) 60
S16(KS7) 59
S15(KS8) 58
S14(KS9) 57
S13(KS10) 56
S12(KS11) 55
G8 54
G7 53
G6 52
G5 51
50 G4
49 G3
48 G2
47 G1
46 POWER
45 MUTE
44 KR0
43 KR1
42 KR2
41 KR3
40 VSS(GND)
39 XOUT(8.38MHz MAIN CLOCK OUT)
38 XIN(8.38MHz MAIN CLOCK IN)
37 32kHz CLOCK OUT
36 32kHz CLOCK IN
35 RESET
34 ENCORDER-A
33 ENCORDER-B
32 REMOCON
31 PROTECT

CIRCUIT DESCRIPTION

2. Key Matrix

	KEY RETURN 0 (44)	KEY RETURN 1 (43)	KEY RETURN 2 (42)	KEY RETURN 3 (41)
KS0(66)	POWER ON/STANDBY	—	DEMO	—
KS1(65)		REC/ARM	HIGH	NORMAL
KS2(64)	A/B	DIRECTION	DOLBY NR	ONE TOUCH EDIT
KS3(63)	PACK(A)	CrO2(A)	PLAY(A)	F • REC • INH
KS4(62)	DSW 0	DSW 1	DSW 2	—
KS5(61)	DISC 1	DISC 2	DISC 3	CD • REPEAT
KS6(60)	DISC • SKIP	OPEN/CLOSE	LONG • PLAY	—
KS7(59)	PACK(B)	CrO2(B)	PLAY(B)	R • REC • INH
KS8(58)	PRESENCE	EQUALIZER	ENTER	ACTIVE N.B
KS9(57)		■	◀◀	▶▶
KS10(56)	AUX	TAPE	TUNER	CD
KS11(55)	TEST	—	—	—

( ) is Pin No.

3. Pin description

Pin No.	Name	I/O	Description		
1	A/D1(60Hz)	I	Spectrum analyzer 60 Hz analog input		
2	A/D2(400Hz)	I	Spectrum analyzer 400 Hz analog input		
3	A/D(2.7kHz)	I	Spectrum analyzer 2.7 kHz analog input		
4	A/D4(16kHz)	I	Spectrum analyzer 16kHz analog input		
5	A.MOTOR	O	A deck captan motor regulation	H: ON	
6	A.SOL	O	A deck solenoid regulation	H: ON	
7	B.MOTOR	O	B deck captan motor regulation	H: ON	
8	B.SOL	O	B deck solenoid regulation	H: ON	
9	$\overline{\text{SD}}$	I	Tuner SD input	L: Tuned	H: Not tuned
10	$\overline{\text{STEREO}}$	I	Tuner stereo input	L: Stereo	H: Mono
11	SELST	O	Selector IC (TC9614N) strobe output		
12	DTMUTE	O	Selector IC (TC9614N) data mute		
13	$\overline{\text{CD-RESET}}$	O	CD microprocessor reset signal output	L: Reset	
14	S-REQ	O	Slave transmission request signal output (For receiver↔microprocessor communications)	H: Request	
15	SRDY	O	Transmission signal possible signal output (For receiver↔microprocessor communications)		
16	TRCLK	I	Communications clock input (For receiver↔ microprocessor communications)		
17	RVDT	O	Slave serial data output (For receiver↔ microprocessor communications)		
18	TXDT	I	Master serial data input (For receiver↔ microprocessor communications)		
19	$\overline{\text{SDA}}$	O	Surround IC (μPC1853) DATA output		
20	CLOCK	O	Surround IC (μPC1853), Expansion IC (M66310FP), PLL IC (LC7218), Selector IC (TC9164N) Clock output (common-use)		

CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Description
21	DATA	O	Expansion IC (M66310FP), PLL IC (LC7218), Selector IC (TC9164N) DATA output (common-use)
22	PLLCE	O	PLL IC (LC7218) CE output H: Enable L: Disable
23	PLLDO	I	PLL IC (LC7218) IF COUNT input
24	M66ST	O	Expansion IC (M66310FP)strobe output
25	BIAS	O	Bias oscillation regulation H: Oscillation
26	DPSS	I	DPSS (search) sensitivity input L: Detect between tracks H: Detect presence of tracks
27	B-PH	I	B deck photo sensor input
28	A-PH	I	A deck photo sensor input
29	M-RREQ	I	Master transmission request signal output H: Request (For receiver ↔ microprocessor communications)
30	$\overline{\text{CE}}$	O	Backup detection L: Backup H: Normal
31	PROTECT	I	Protection detection H: Protect ON L: Normal
32	REMOCON	I	Remote controller input
33	ENCORDER B	I	Rotary encoder input B
34	ENCORDER A	I	Rotary encoder input A
35	$\overline{\text{RESET}}$	I	Reset signal input L: Reset
36	XCIN	I	Clock-use clock signal input 32kHz quartz crystal connected
37	XCOUT	O	Clock-use clock signal output 32kHz quartz crystal connected
38	XIN	I	Main clock input 8.38 MHz ceramic oscillator connected
39	XOUT	O	Main clock output 8.38 MHz ceramic oscillator connected
40	Vss		GND connector Connect to GND
41	KR3	I	Key return signal input 3
42	KR2	I	Key return signal input 2
43	KR1	I	Key return signal input 1
44	KR0	I	Key return signal input 0
45	$\overline{\text{MUTE}}$	O	Mute regulation L: Mute ON H: Mute OFF
46	POWER	O	Power regulation H: Power ON L: Power OFF
47	G1	O	FL G1 grid drive connector
48	G2	O	FL G2 grid drive connector
49	G3	O	FL G3 grid drive connector
50	G4	O	FL G4 grid drive connector
51	G5	O	FL G5 grid drive connector
52	G6	O	FL G6 grid drive connector
53	G7	O	FL G7 grid drive connector
54	G8	O	FL G8 grid drive connector
55	S12	O	FL S12 segment drive connector and key scan signal output 11
56	S13	O	FL S13 segment drive connector and key scan signal output 10
57	S14	O	FL S14 segment drive connector and key scan signal output 9
58	S15	O	FL S15 segment drive connector and key scan signal output 8
59	S16	O	FL S16 segment drive connector and key scan signal output 7 (B deck common)
60	S17	O	FL S17 segment drive connector and key scan signal output 6
61	S18	O	FL S18 segment drive connector and key scan signal output 5
62	S19	O	FL S19 segment drive connector and key scan signal output 4 (Tuner dispatch)
63	S20	O	FL S20 segment drive connector and key scan signal output 3 (A deck common)

CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Description
64	S21	O	FL S21 segment drive connector and key scan signal output 2
65	S22	O	FL S22 segment drive connector and key scan signal output 1
66	S42	O	FL S42 segment drive connector and key scan signal output 0
67	S41	O	FL S41 segment drive connector
68	S40	O	FL S40 segment drive connector
69	S39	O	FL S39 segment drive connector
70	S38	O	FL S38 segment drive connector
71	S37	O	FL S37 segment drive connector
72	S36	O	FL S36 segment drive connector
73	S35	O	FL S35 segment drive connector
74	S34	O	FL S34 segment drive connector
75	S33	O	FL S33 segment drive connector
76	S32	O	FL S32 segment drive connector
77	S31	O	FL S31 segment drive connector
78	S30	O	FL S30 segment drive connector
79	S29	O	FL S29 segment drive connector
80	S28	O	FL S28 segment drive connector
81	S27	O	FL S27 segment drive connector
82	S26	O	FL S26 segment drive connector
83	S25	O	FL S25 segment drive connector
84	S24	O	FL S24 segment drive connector
85	S23	O	FL S23 segment drive connector
86	S11	O	FL S11 segment drive connector
87	S10	O	FL S10 segment drive connector
88	S9	O	FL S9 segment drive connector
89	S8	O	FL S8 segment drive connector
90	S7	O	FL S7 segment drive connector
91	VDD		Power supply input (+5V)
92	S6	O	FL S6 segment drive connector
93	S5	O	FL S5 segment drive connector
94	S4	O	FL S4 segment drive connector
95	S3	O	FL S3 segment drive connector
96	S2	O	FL S2 segment drive connector
97	S1	O	FL S1 segment drive connector
98	VEE	I	Pull-down power supply input (for FL) Connected to -30V
99	AVSS	I	Analog power supply input Connected to GND
100	VREF	I	A/D converter reference voltage input Connected to +5V

CIRCUIT DESCRIPTION

4. Conditions by Description

Desti-nation Type	Diode switches(DSW)			Band	Receiving frequency range	Interchannel space	Intermediate frequency	PLL reference frequency	PLL(X29 : IC2 LA7218) output port						
	DSW2 D43	DSW1 D40	DSW0 D39						⑨	⑩	⑪	⑫	⑬	⑭	⑮
K1(1700)	0	0	0	FM	87.5~108.0MHz	100kHz	+10.7MHz	25kHz	m	i	H	L	H	H	H
				AM	530~1700kHz	10kHz	+450kHz	10kHz	m	i	H	H	L	H	H
K2(1610)	0	0	1	FM	87.5~108.0MHz	100kHz	+10.7kHz	25kHz	m	i	H	L	H	H	H
				AM	530~1610kHz	10kHz	+450kHz	10kHz	m	i	H	H	L	H	H
E1	0	1	1	FM	87.5~108.0kHz	50kHz	+10.7kHz	25kHz	m	i	H	L	H	H	H
				AM	531~1602kHz	9kHz	+450kHz	9kHz	m	i	H	H	L	H	H
E2(LW)	1	0	0	FM	87.5~108.0MHz	50kHz	+10.7MHz	25kHz	m	i	H	L	H	H	H
				MW	531~1602kHz	9kHz	+450kHz	9kHz	m	i	H	H	L	H	H
				LW	153~279kHz	9kHz	+450kHz	9kHz	m	i	H	H	H	L	H
M	0	X	1	**Change K2/E1 by setting "DSW1" only.** **(DSW1= 0:K2 Type ; 1:E1 Type)**											

* Diode switch(DSWx) : 0=Without diode(in the case of static, LOW input)
1=With diode(in the case of static, HIGH input)
X=Transistor switch(0=OFF/ 1=ON)

* Here the PLL reference frequency is the value set in PLL, the AM division ratio becomes the same as the PLL reference frequency, but the FM division ratio is twice the PLL frrequency.

* When the diode switch destination is different from this chart, it becomes the K1 destination.

PLL port

m= H: AUTO STEREO
L: MONO

i= H : IF SIGNAL ON
L : IF SIGNAL OFF

5. Initialization(Reset)

Insert the AC plug into the outlet while holding down the ENTER key of main unit.

Initial stage

	State	
SYSTEM	POWER	OFF
CLOCK PROG.	CLOCK	STOP(AM0:00)
	PROG. Operation MODE	OFF
	PROG.1 : ON=AM0:00	OFF=AM0:00
	MOD=PLAY	SOC=TUNER(1ch)
	PROG.2 : ON=AM0:00	OFF=AM0:00
	MOD=PLAY	SOC=TUNER(1ch)
AMP	VOLUME	7SEG=7(μPC1853 VOLdata=10)
	SELECTOR	TUNER
	EQ.	OFF
	PRESENCE	OFF
	LONG PLAY	OFF
	ACTIVE N.B.	OFF
	MUTING	OFF
TUNER	BAND	FM
	Each last BAND	
	FM : P.ch= - - ch	FREQ=min(76.0 or 87.5MHz)
	AM(MW) : P.ch= - - ch	FREQ=min(530 or 531kHz)
	LW : P.ch= - - ch	FREQ=min(153kHz)
	P.CH Memory 1ch~20ch :	Test frequency (Refer to Test Frequency)
	Tuning MODE	AUTO (AUTO STEREO)
TAPE	A/B Selector	B
	A Deck Head position	For FWD
	B Deck Head position	For FWD
	DOLBY NR	OFF
	DIRECTION	ENDLESS
CD	DISC Selector	DISC 1
	REPEAT	OFF

6. Test Frequency(Maker's Memory Frequency)

Desti-nation / PRESET	K		E	
	WIDE BAND	**NARROW BAND**	**With LW**	**Without LW**
1	FM 98.0MHz	FM 98.0MHz	FM 98.0MHz	FM 98.0MHz
2	FM108.0MHz	FM108.0MHz	FM108.0MHz	FM108.0MHz
3	AM 630kHz	AM 630kHz	AM 630kHz	AM 630kHz
4	AM 990kHz	AM 990kHz	AM 990kHz	AM 990kHz
5	AM 1440kHz	AM 1440kHz	AM 1440kHz	AM 1440kHz
6	AM 1610kHz	AM 1610kHz	AM 1602kHz	AM 1602kHz
7	AM 1700kHz	FM 87.5MHz	LW 162kHz	FM 87.5MHz
8	FM 87.5MHz	FM 87.5MHz	LW 216kHz	FM 87.5MHz
9	FM 87.5MHz	FM 87.5MHz	LW 270kHz	FM 87.5MHz
10	FM 89.1MHz	FM 89.1MHz	FM 89.1MHz	FM 89.1MHz
11	FM 87.5MHz	FM 87.5MHz	LW 279kHz	FM 87.5MHz
12	FM 90.0MHz	FM 90.0MHz	FM 90.0MHz	FM 90.0MHz
13	FM106.0MHz	FM106.0MHz	FM106.0MHz	FM106.0MHz
14	AM 530kHz	AM 530kHz	MW 531kHz	AM 531kHz
15	FM 87.5MHz	FM 87.5MHz	LW 153kHz	FM 87.5MHz
16	FM 97.5MHz	FM 97.5MHz	FM 97.5MHz	FM 97.5MHz
17	FM 98.5MHz	FM 98.5MHz	FM 98.5MHz	FM 98.5MHz
18	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz
19	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz
20	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz	FM 87.5MHz

CD MECHANISM DESCRIPTION

CD mechanism operation description

1) How to detach the tray

1. From the rear side of the CD mechanism, use a screw driver or the like to turn the friction arm (❶) fully counterclockwise.
2. Remove the two bracket attachment screws (❷).
3. Remove the tray in the arrow direction (❹).

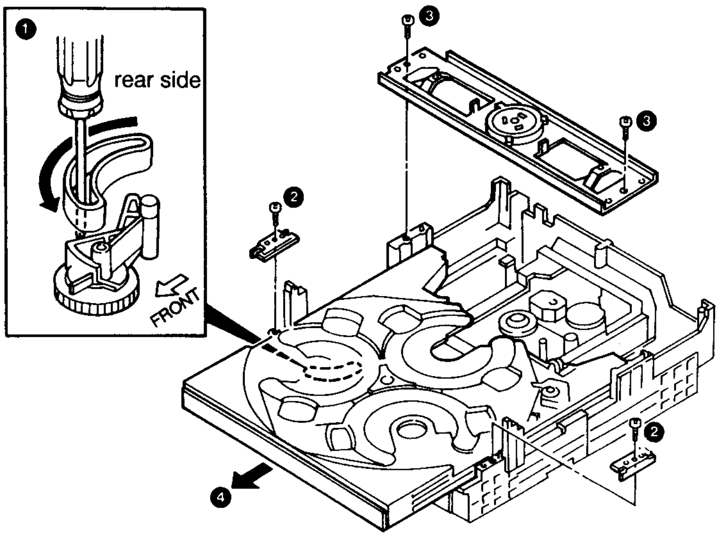


FIG. 1

2) How to attach the tray

1. Check to make sure the rollers on each side (two rollers) have not come off. Move the friction gear by hand in the direction of arrow (❶), align the groove on the rear side of the slide tray with the friction gear shaft and insert the slide tray.
2. Align the grooves on both sides of the slide tray with the main chassis' guides(❷) and insert the slide tray as far back as it will go.
3. Attach the brackets on both sides(two brackets).

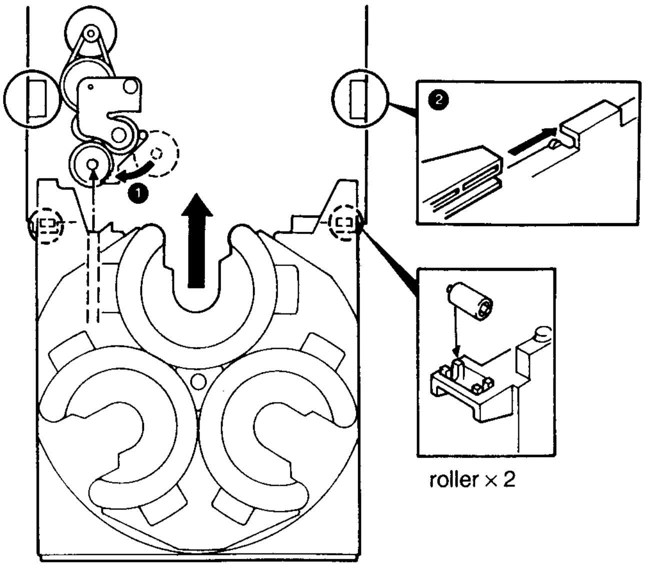


FIG. 2

CD MECHANISM DESCRIPTION

3) Opening the tray during playback

If press the OPEN/CLOSE key during playback, traverse keeping up condition, the loading motor rotates in the direction of the arrow (Fig. 4 ❶).

While rotating counterclockwise, the friction gear moves in the direction of the arrow (Fig.3 ❶), and the slide tray begins to move in the arrow direction.

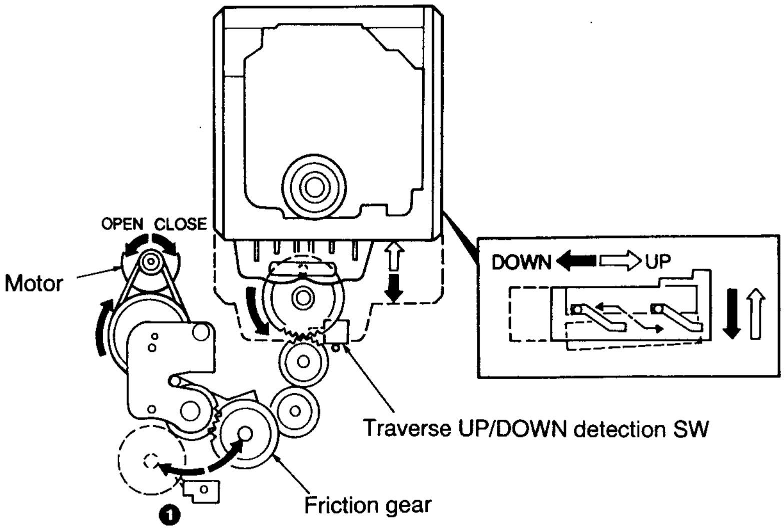

OPEN CLOSE
Motor
DOWN
UP
Traverse UP/DOWN detection SW
Friction gear
❶

FIG. 3

When the tray is almost finished opening, the lever switch (Fig. 4 ❸) is pressed by the projection on the rear side of the slide tray and opening comes to a stop.

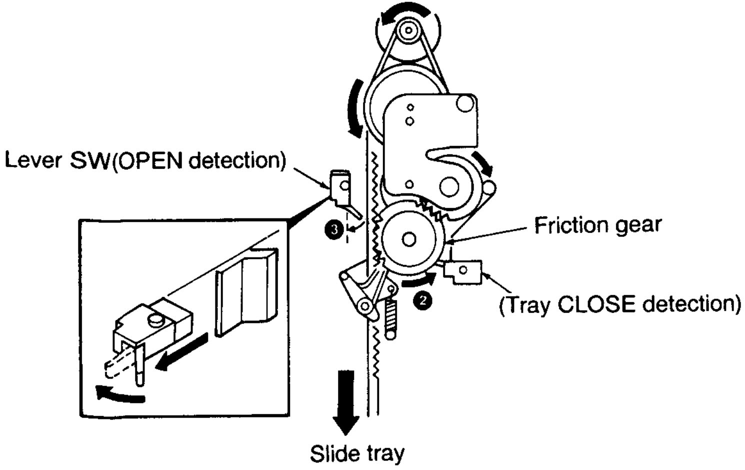

❶
Lever SW(OPEN detection)
❸
Friction gear
❷
(Tray CLOSE detection)
Slide tray

FIG. 4

4) Tray closing

When press the OPEN/CLOSE key, the loading motor rotates in the arrow direction (❶).

The friction gear rotates in the direction of arrow (❷), (❸) the friction gear moves along the groove on the rear side of the tray in the direction of arrow (❹). When the tray is almost finished closing, the CLOSE detect switch comes off and closing to a stop.

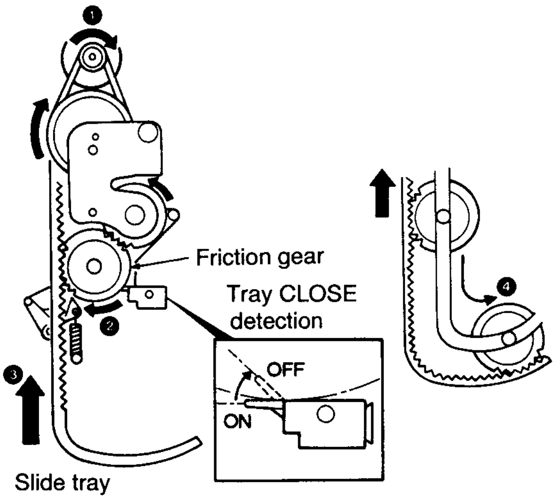

❶
Friction gear
Tray CLOSE detection
❷
❸
OFF
ON
Slide tray
❹

FIG. 5

CD MECHANISM DESCRIPTION

5) Replacing the pickup

1. Remove the two clamp bracket attachment screws.(Fig.1 ❸).
2. Remove the four screws affixing the lift slider and lift out the lift slider and traverse unit.

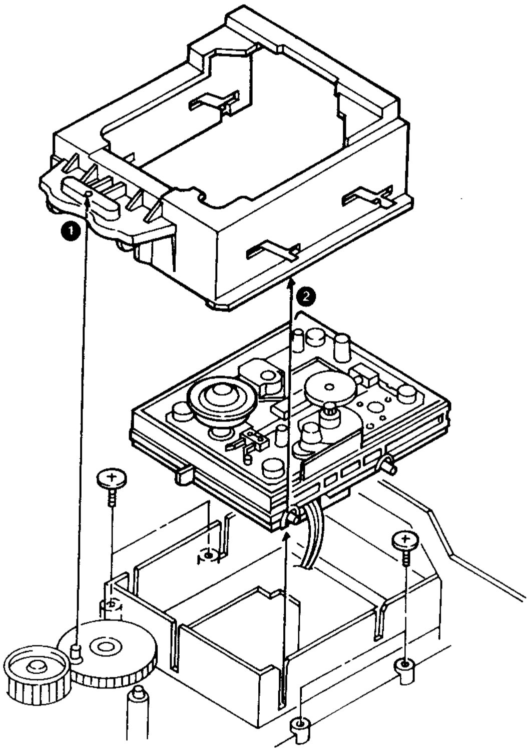


FIG. 6

3. Remove the two 8P connectors.
4. Remove the gear.
5. Remove the shaft.

※When reassembling, always be sure to align the cam gear and traverse shaft as shown in ❶ and ❷ of Fig.6.

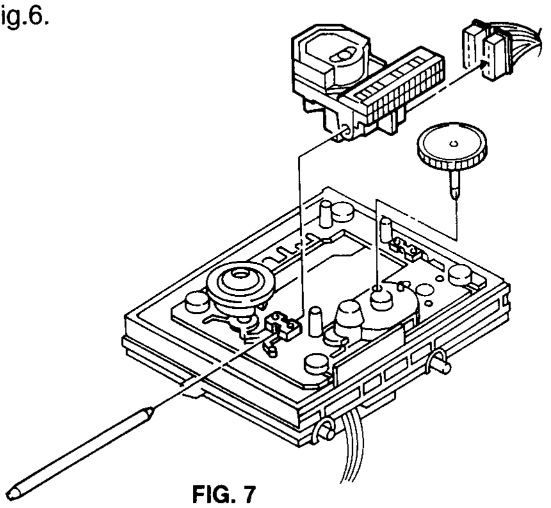


FIG. 7

6) Disc detect

When the rotary tray monitor rotates, the rotary tray begins to rotate clockwise. The disc number detect switch on the rear side of the rotary tray detects the disc number.

The stop position is detected by the stop position detection switch.

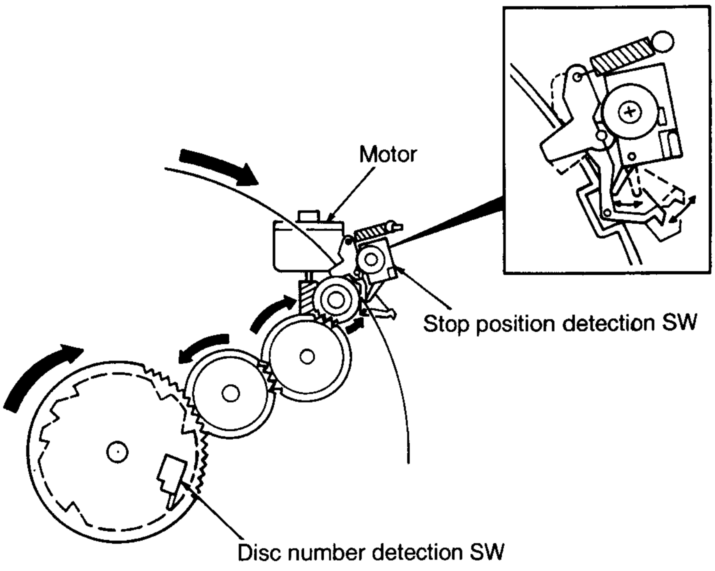


FIG. 8

CASSETTE MECHANISM DESCRIPTION

Cassette deck mechanism description

1) STOP → FWD PLAY/REC (head faces FWD while stopped)

1. At key on the main monitor (MM) rotates.
2. After 300 ms, when SOL is pulled for 40 ms, boss A of the the tip of the trigger arm comes apart from the cam gear's stopper A. [Fig. 1, 2]

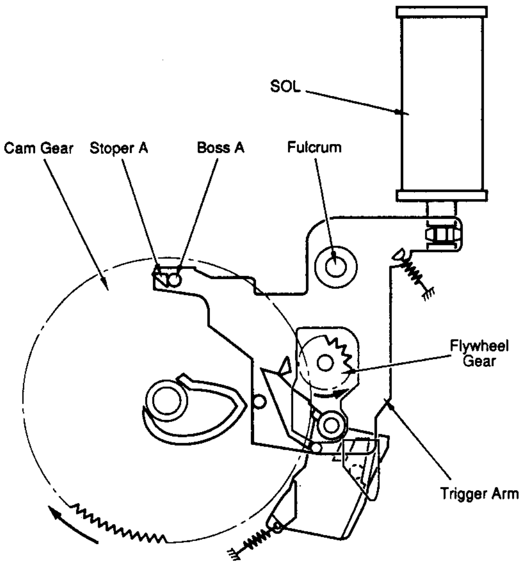

SOL
Cam Gear
Stoper A
Boss A
Fulcrum
Flywheel Gear
Trigger Arm

FIG. 1

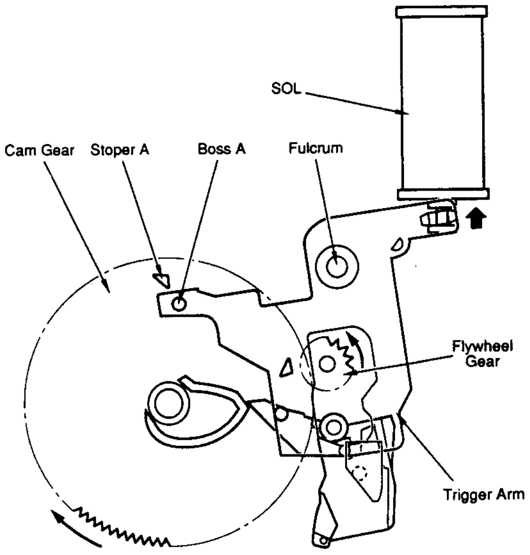

SOL
Cam Gear
Stoper A
Boss A
Fulcrum
Flywheel Gear
Trigger Arm

FIG. 2

3. The shift lever is pushed down by spring 1 and the head chassis is pressured by the shift lever and spring 2.Because the shift lever pushes cam B of the cam gear, the actuation of 2. makes the cam gear rotate. [Fig. 3]

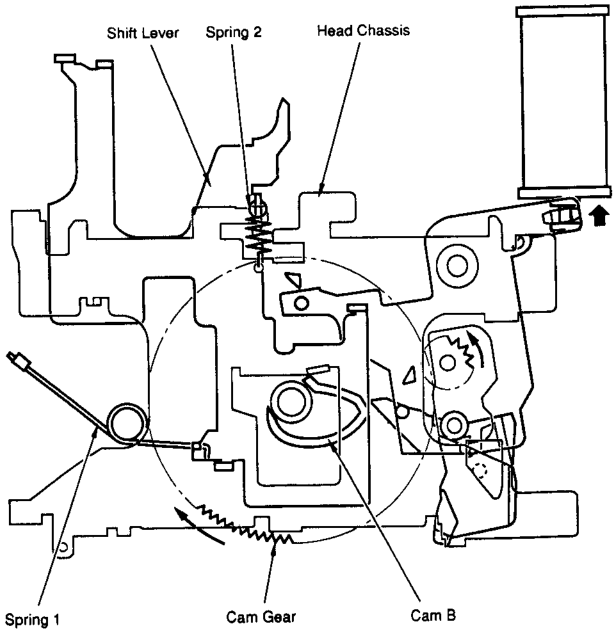

Shift Lever
Spring 2
Head Chassis
Spring 1
Cam Gear
Cam B

FIG. 3

RXD-C3/C3L

CASSETTE MECHANISM DESCRIPTION

4. The flywheel gear rotated by the main monitor begins to engage the cam gear, and the cam gear further rotates, raising the shift lever and the head chassis. [Fig. 4, 5]

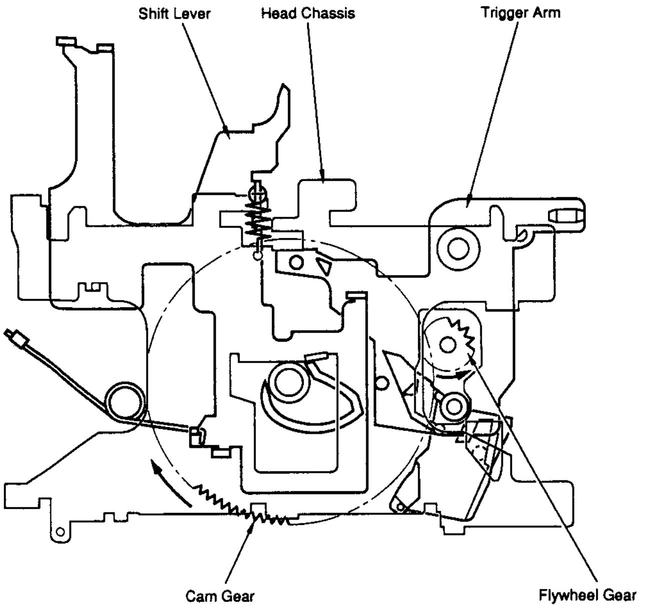

Shift Lever
Head Chassis
Trigger Arm
Cam Gear
Flywheel Gear

FIG. 4

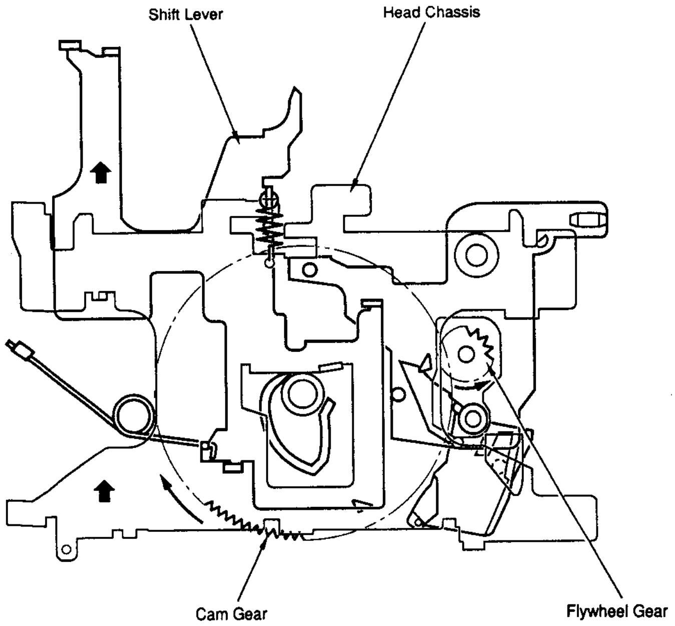

Shift Lever
Head Chassis
Cam Gear
Flywheel Gear

FIG. 5

5. 345 ms after completing the pulling of SOL in 2., the SOL is ON for 150 ms, the trigger arm pushes the select lever right by means of boss B. This splits the select lever toward the right side of boss C above the main chassis and it rises along with the head chassis. [Fig. 6, 7, 8]

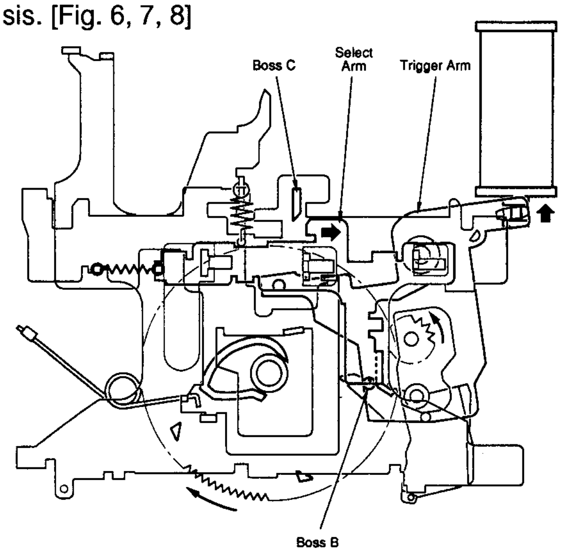

Boss C
Select Arm
Trigger Arm
Boss B

FIG. 6

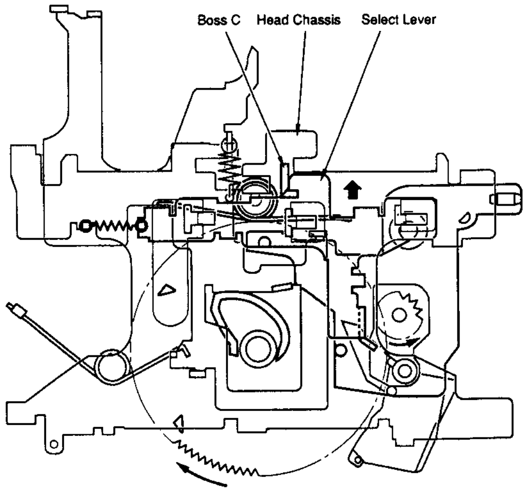

Boss C
Head Chassis
Select Lever

FIG. 7

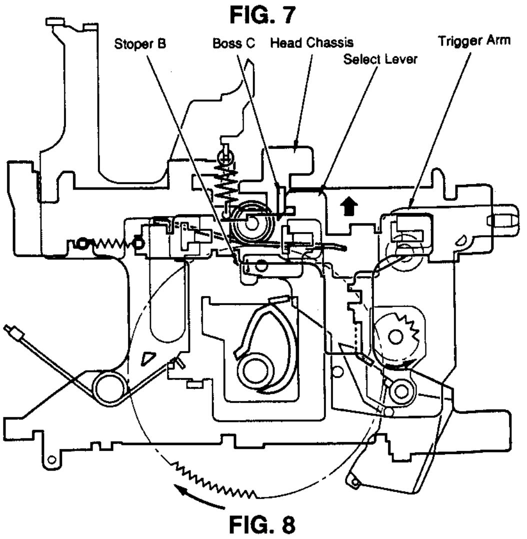

Stoper B
Boss C
Head Chassis
Select Lever
Trigger Arm

FIG. 8

CASSETTE MECHANISM DESCRIPTION

6. While stopped the clutch arm is centered by its boss C in shift lever groove A , but this begins to be canceled by the shift lever rising action of 4. At the same time, spring 3, which was applied to the clutch arm by the select lever in 5., is pushed up, the clutch arm swings its head to the right and gear A on the clutch arm engages the right reel gear.
7. With the actuation of 6., the cam gear's cam C is pressed by the lower end of the clutch arm, and the two-level idler gear driven by the motor engages the play gear attached to the clutch arm, introducing the clutch from the play gear and driving gear A.
8. The cam gear turns farther and the clutch arm separates from cam C, but the clutch arm's pin A contacts the head chassis, which has become upraised, and the clutch arm remains in the rear. The idler gear and the play gear continue to engage.
9. The upper end of the shift lever, which has become upraised, locks the clutch arm toward the right side. The rising of the head chassis, which was suspended by spring 2 at the shift lever, stops upon touching the RF pin, and the head return plate attached to the head chassis causes the FWD pinch roller to be pressed against the capstan.
10. After the shift lever passes over the cam gear's topmost vertice, the flywheel gear and the cam gear become disengaged. Pressed by the shift lever, the cam gear, which had been following against spring 1 and 2, rotates until the cam gear's stopper B touches the boss on the tip of the trigger arm. ⇨ FWD PLAY mode

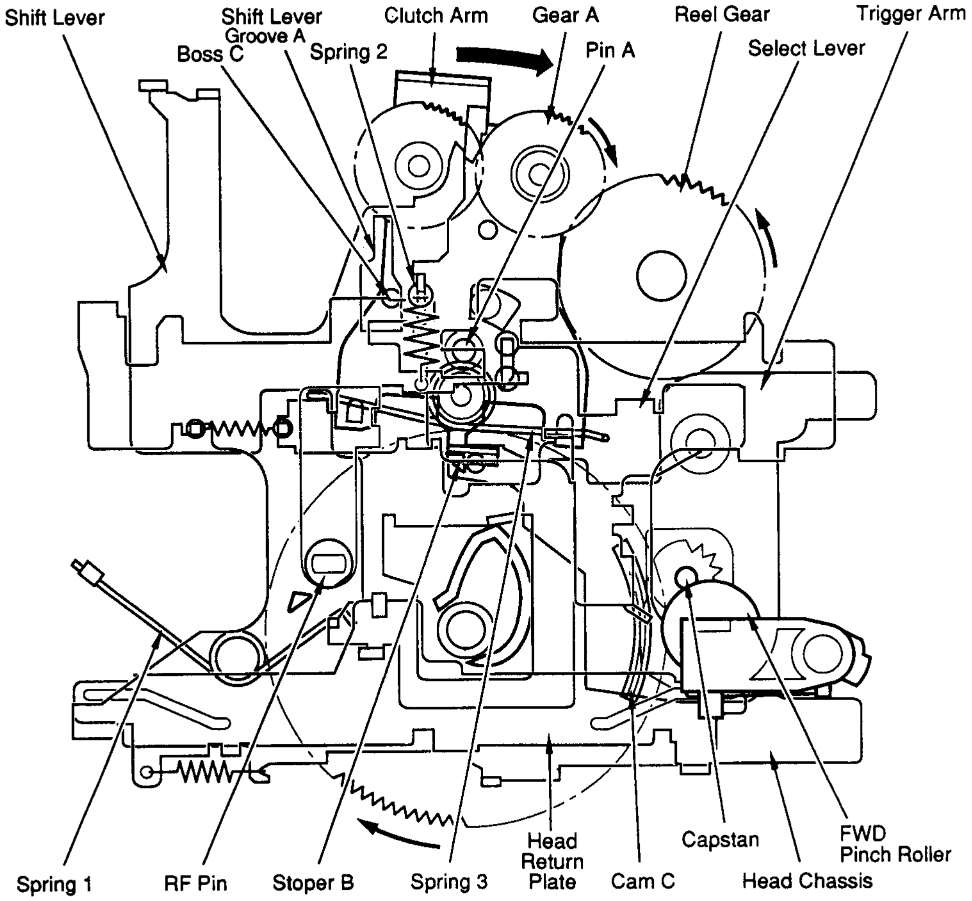

Shift Lever
Shift Lever Groove A
Boss C
Spring 2
Clutch Arm
Gear A
Pin A
Reel Gear
Select Lever
Trigger Arm
Spring 1
RF Pin
Stoper B
Spring 3
Head Return Plate
Cam C
Capstan
Head Chassis
FWD Pinch Roller

FIG. 9

CASSETTE MECHANISM DESCRIPTION

2) STOP → RVS PLAY/REC

1. At key on the main monitor rotates.
2. After 300 ms, SOL is turned ON for 205 ms. Boss A of the the tip of the trigger arm comes apart from the cam gear's stopper A. [Fig. 10]

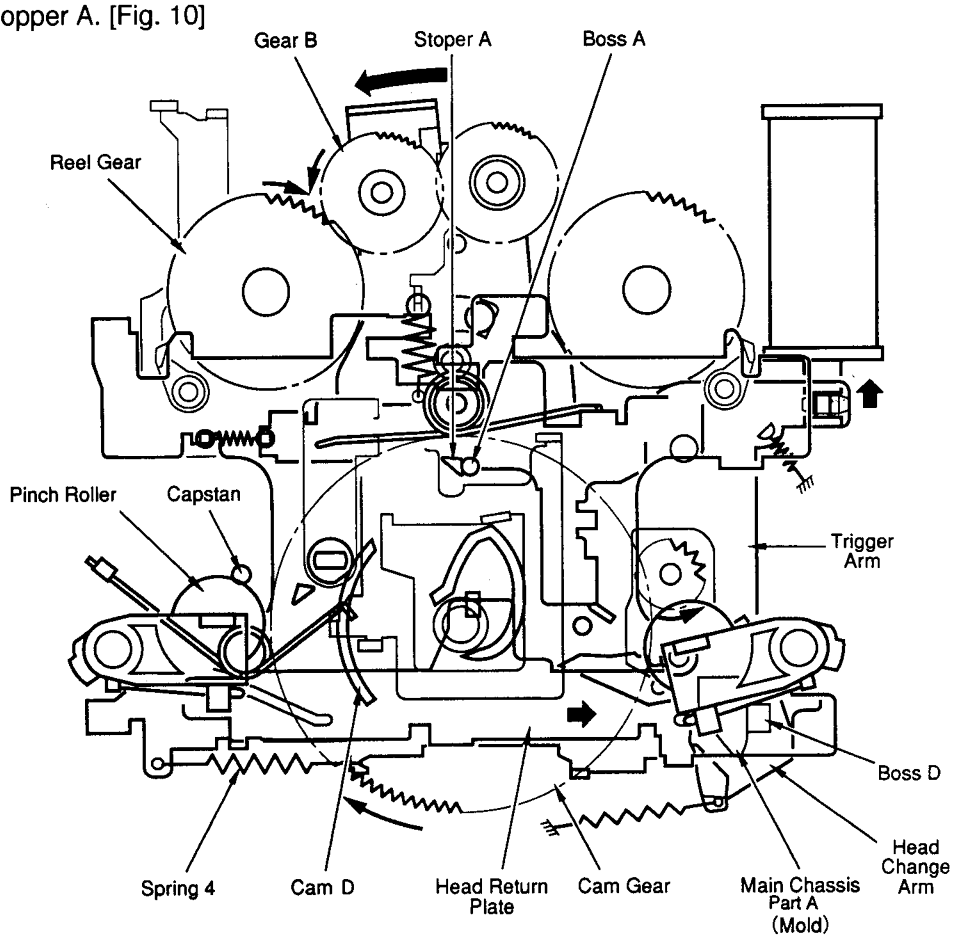


FIG. 10

3. The shift lever is pushed down by spring 1 and the head chassis is pressured by the shift lever and spring 2.Because the shift lever pushes cam B of the cam gear, the actuation of 2. makes the cam gear rotate. [Fig. 3]
4. The flywheel gear rotated by the main monitor begins to engage the cam gear, and the cam gear further rotates, raising the shift lever and the head chassis. [Fig. 4, 5]
5. The head change arm is pulled by the trigger arm, catching on the cam gear's cam D. The cam gear's rotation causes the head chassis arm to rotate, the bottom part of which slides the head return plate toward the right. In order to pressure the RVS pinch roller.
6. The cam gear rotates and the head chassis arm comes apart from cam D and returns. However, because the head chassis is already upraised, boss D of the head return plate is held toward the right side by part A of the main chassis.
7. The SOL is already OFF and the select lever is on the left side. By the same actuation as in 6. of 1). above, the clutch arm head swings to the left and gear (B) atop the clutch arm engages the left reel gear.
8. With the actuation of 6.of 1) , the cam gear's cam C is pressed by the lower end of the clutch arm, and the two-level idler gear driven by the motor engages the play gear attached to the clutch arm, introducing the clutch from the play gear and driving gear A.

CASSETTE MECHANISM DESCRIPTION

The cam gear turns farther and the clutch arm separates from cam C, but the clutch arm's pin A contacts the head chassis, which has become upraised, and the clutch arm remains in the rear. The idler gear and the play gear continue to engage.

9. The HD chassis stops by the RF pin. The RVS pinch roller is pressed against the capstan by the head return plate, which is slid to the right.
10. After the shift lever passes over the cam gear's topmost vertice, the flywheel gear and the cam gear become disengaged. Pressed by the shift lever, the cam gear, which had been following against spring 1 and 2, rotates until the cam gear's stopper B touches the boss on the tip of the trigger arm. ⇨ RVS PLAY mode

3) STOP → FF/CUE[Fig.11]

1. At key on the main monitor rotates.
2. After 300 ms, when SOL is pulled for 40 ms, boss A of the the tip of the trigger arm comes apart from the cam gear's stopper A. [Fig. 1, 2]
   The shift lever is pushed down by spring 1 and the head chassis is pressured by the shift lever and spring 2. Because the shift lever pushes cam B of the cam gear, the actuation of 2. makes the cam gear rotate. [Fig. 3]
   The flywheel gear rotated by the main monitor begins to engage the cam gear, and the cam gear further rotates, raising the shift lever and the head chassis. [Fig. 4, 5]
3. After the SOL turns OFF, 205 ms later the SOL is turned ON again for 310 ms. The trigger arm slides the select arm to the right. Accordingly, the select lever is split toward the right side of main chassis boss C and rises along with the head chassis.
4. The CR lever attached to the main chassis by the select lever in 3. slides to the right. The head chassis' section B, which has risen there, shifts the CR lever to the right. The rising of the head chassis contacts the CR lever and stops. → FF/CUE head height

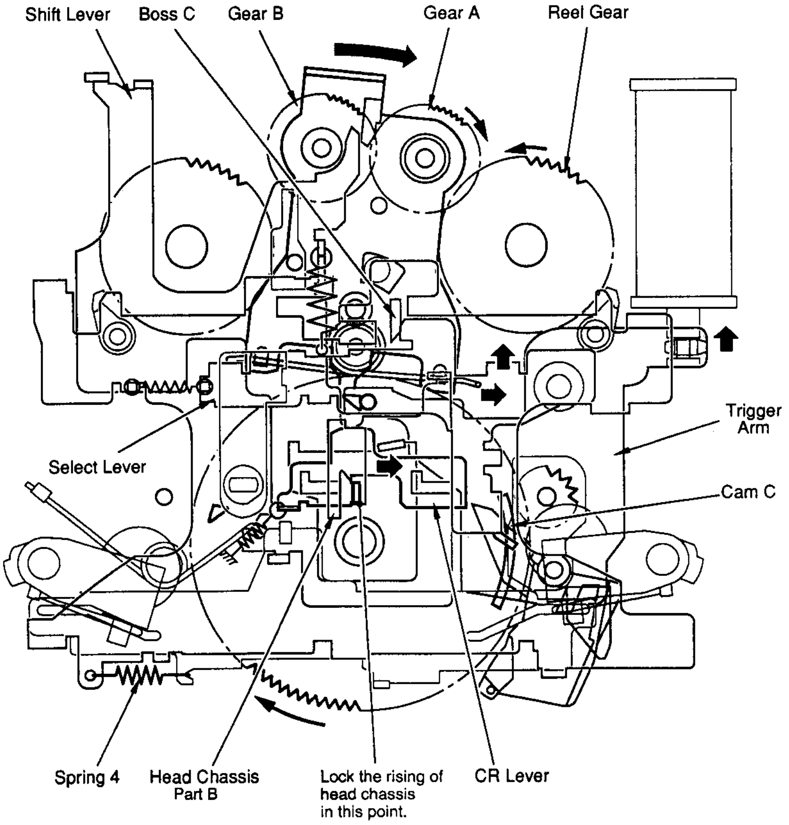


FIG. 11

CASSETTE MECHANISM DESCRIPTION

5. While stopped the clutch arm is centered by its boss C in shift lever groove A, but this begins to be canceled by the shift lever rising action of 4.of 1). At the same time, spring 3, which was applied to the clutch arm by the select lever in 5.of 1), is pushed up, the clutch arm swings its head to the right and gear A on the clutch arm engages the right reel gear.

   With the actuation of above, the cam gear's cam C is pressed by the lower end of the clutch arm, and the two-level idler gear driven by the motor engages the play gear attached to the clutch arm, introducing the clutch from the play gear and driving gear A.
6. The cam gear turns even further and the clutch arm separates from cam C. The head chassis is stopped at position 4. so the clutch arm comes forward again. The idler gear and play gear are disengaged, and the FF/REW gear and idler gear engage. The clutch is introduced from the FF/REW gear and gears A and B and the reel gear are driven.
7. The clutch arm is locked to the right by the upper end of the risen shift lever. The head chassis is in the position of 4., so the pinch roller and capstan are not pressed together.
8. After the shift lever passes over the cam gear's topmost vertice, the flywheel gear and the cam gear become disengaged. Pressed by the shift lever, the cam gear, which had been following against spring 1 and 2, rotates until the cam gear's stopper B touches the boss on the tip of the trigger arm. ⇨ FF/CUE mode

4) STOP → REW/REV [Fig. 12]

1. At key on CPM rotates.
2. After 300 ms, when SOL is pulled for 40 ms, boss A of the the tip of the trigger arm comes apart from the cam gear's stopper A. [Fig. 1, 2]

   The shift lever is pushed down by spring 1 and the head chassis is pressured by the shift lever and spring 2.Because the shift lever pushes cam B of the cam gear, the actuation of above. makes the cam gear rotate. [Fig. 3]

   The flywheel gear rotated by the main monitor begins to engage the cam gear, and the cam gear further rotates, raising the shift lever and the head chassis. [Fig. 4, 5]
3. After the SOL turns OFF, 205 ms later the SOL is turned ON again for 135 ms. The select lever and CR lever shift to the right and section B of the head chassis, which has risen, shifts the CR lever to the right. The rising of the head chassis stops on contacting the CR lever.→REW/REV head height position.

   Furthermore, because the SOL ON time is shorter than FF/CUE , and the select lever comes to the position of boss C after returning to the left side, the select lever is split to the left.

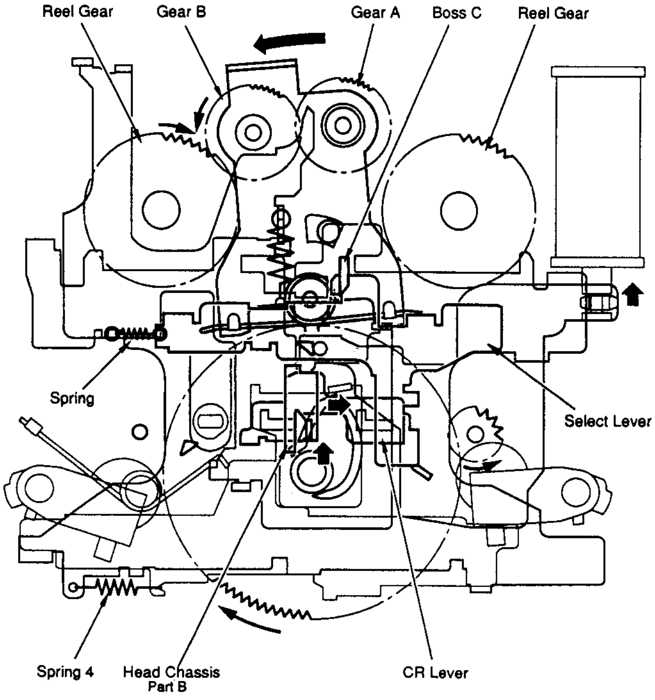


FIG. 12

CASSETTE MECHANISM DESCRIPTION

4. The SOL is already OFF and the select lever is on the left side. By the same actuation as in 6. of 1) above, the clutch arm head swings to the left and gear B atop the clutch arm engages the left reel gear.
5. With the actuation in 6.of 1), the cam gear's cam C is pressed by the lower end of the clutch arm, and the two-level idler gear driven by the motor engages the play gear attached to the clutch arm, introducing the clutch from the play gear and driving gear A.
6. The cam gear turns even further and the clutch arm separates from cam C. The head chassis is stopped at position 4. of 3) so the clutch arm comes forward again. The idler gear and play gear are disengaged, and the FF/REW gear and idler gear engage. The clutch is introduced from the FF/REW gear and gears A and B and the reel gear are driven.
7. After the shift lever passes over the cam gear's topmost vertice, the flywheel gear and the cam gear become disengaged. Pressed by the shift lever, the cam gear, which had been following against spring 1 and 2, rotates until the cam gear's stopper B touches the boss on the tip of the trigger arm.⇨ REW/REV mode

5) FWD/REV PLAY, FF•CUE/REW•REV → STOP [Fig. 13]

1. 20 ms after key on, SOL turns ON.
2. The boss at the tip of the trigger arm comes apart from stopper B. The cam gear rotates from the force of the shift lever pressing downward.
3. The cam gear begins to engage the flywheel gear, which is rotating due to the CPM. The cam gear turns further, and the shift lever and head chassis lower. (When initiating from RVS Play, the head return plate comes apart from A of the main chassis and is returned to the left side by spring 4. The head swings around to the FWD direction due to the force of spring 5.
4. The flywheel gear and cam gear disengage, but the force of the shift lever makes rotation continue until the boss at the tip of the trigger arm comes into contact with the cam gear's stopper A. ⇨ STOP mode (switching of the various modes always goes through STOP)

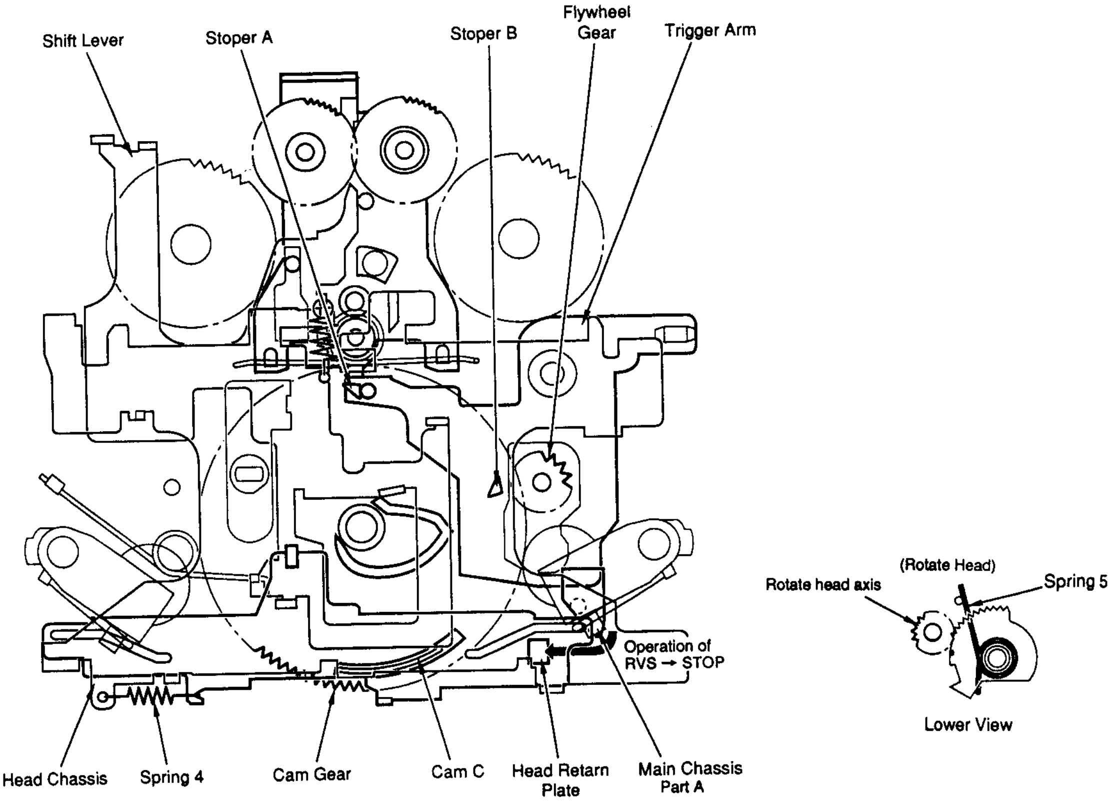


FIG. 13

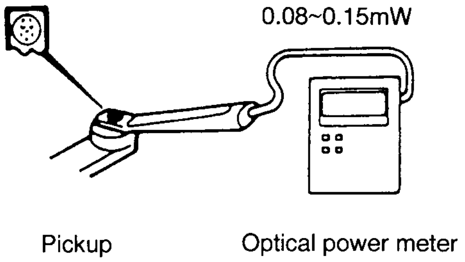
ADJUSTMENT

CD section

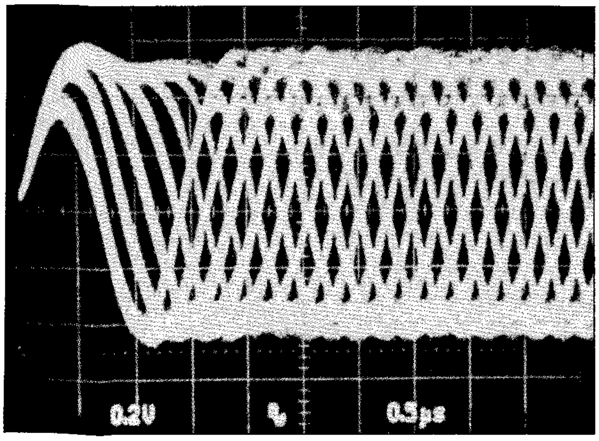
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Remove the clamper ass'y before step 1. And remount it after step 1.							
1	LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	With pressing the P.MODE key, turn the power on to enter the test mode. Press the "CHECK" key to checkthat the display is"03".	—	On the power from 0.08 to 0.15mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more.	(a)
Cancel test mode and open the tray to load the disc.							
2	FOCUS ERROR	Test disc Type 4	Connect an oscilloscope as follows. CN207 Connect hot side to RF(No.①) Connect Ground to VREF(No.②)	Press the PLAY key.	FE BALANCE VR201	Adjust the waveform to better point.	(b)

(Note) Type 4 disc : SONY YDS-18 Test Disc or equivalent.

(a) Laser power



(b)



- RF signal in test mode(PLAY).
- Perform the tangential and focusing offset adjustment so that each of the center cross points are focused into one point on the display.
  The crossing points above and below the center shall also be displayed clearly.

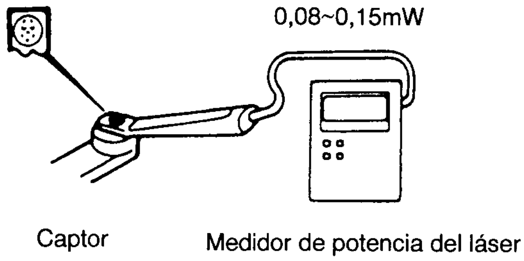
AJUSTE

CD sección

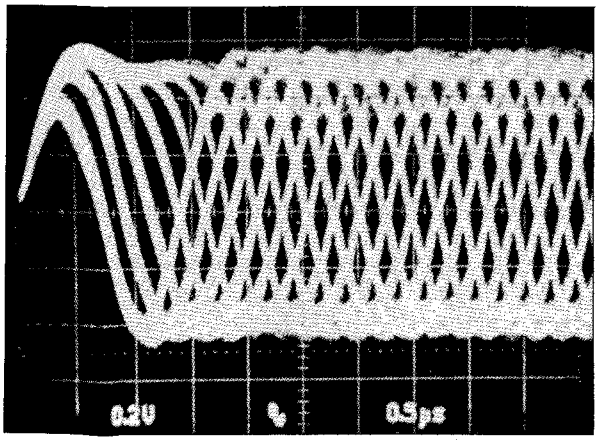
No	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE CALIBRACIÓN	CALIBRA R EN	FIG.
Quite la brazadera antes del paso 1 y vuelva a montarla después del 1.							
1	POTENCIA DEL LÁSER	—	Coloque la sección del sensor del medidor de potencia óptica en la lente del captor.	Active la alimentación eléctrica al tiempo que oprime la tecla P.MODE para acceder a la modalidad de prueba. Oprima la tecla "CHECK" para comprobar que la indicación es "03".	—	A una potencia de 0,08 a 0,15mV, la rejilla de difracción debe ester correctamente alineada, con un nivel de RF de 1,0Vp-p o más.	(a)
Cancelar la modalidad de prueba y abrir la bandeja para cargar el disco.							
2	ERROR DE ENFOQUE	Probar el disco tipo 4.	Conectar un osciloscopio como sigue.CN207 Conectar RD(No①) al lado con corriente Conectar VREF(No④) a masa.	Oprimir la tecla PLAY.	EQILIBRIO FE VR201	Ajustar al punto donde la forma de onda es óptima.	(b)

(Nota) : Disco tipo 4 : Disco de prueba SONY YDS-18 o equivalente.

(a) Potencia del láser



(b)



- Sefial RD en modo de prueba(reproducción).
- Realizar los ajustes de desviación tangencial y de enfoque de manera que cada una de las crucetas centrals se enfoquen en punto de la pantalla. Las crucetas que están encima debajo del centro deben también indicarse con claridad.

ADJUSTMENT

Cassette Deck section

No.	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specifilied, set the respective switches as follows: **TAPE : NORMAL DOLBY : OFF INPUT : AUX(AUX LEVEL : MAX)** **I. Cassette mechanism section(Recording/ play head adjustment)**							
1	Degaussing and cleanling	—	—	Power : off, Degaussing, cleaning, PLAY	Recording heads, Erase heads, Capstans, Pinch rollers	Degauss the recording/play heads by a heads eraser. Clean the recording/play heads, erase heads capstans and pinch rollers by a cotton swab soaked with alcohol.	
2	Recording/play head azimuth	SCC-1727, TCC-153, MTT-144, 10kHz, -10dBs	(B)	PLAY	Azimuth adjustment screw	Maximize the output and adjust so that the Lissajous figure nears a line slanted 45°	
II. Printed circuit board adjustment Note : First perform the double-speed sdjustment.							
1	Tape speed (double)	SCC-1727, TCC-110, MTT-144, 3kHz,	(B)	After normal play, always short the base side of Q7 to GND to set to high speed.	A DECK : VR7 B DECK : VR1	Adjust so that the frequency is 6 kHz at the tape center.	
2	Tape speed (normal)	SCC-1727, TCC-110, MTT-111, 3kHz,	(B)		A DECK : VR8 B DECK : VR2	Adjust so that the frequency is 3 kHz at the tape center.	
III. Printed circuit board adjustment(X28-2620-00)							
1	Play back level	MTT-150 400Hz	(B)	PLAY	A DECK : VR9(L) VR10(R) B DECK : VR3(L) VR4(R)	Set pins No.1(L ch) and No.4(R ch) of CN401 to -0.5dBs. Or, set pins No.8(L ch) and No.49(R ch) of IC 401 to 775mV.	
2	Bias current	INPUT : MAX 1kHz , -10dBs 10kHz, -30dBs	(B)	Adjust AUX input so that the recording monitor output of CN401 becomes -20dBs at 1kHz, and record and play 1kHz and 10kHz alternately.	B DECK : VR5(L) VR6(R)	Record 1kHz and 10kHz reciprocally, and adjust so that they are identical in playback level.	
3	Bias oscilating frequency	Load the non recorded tapes on Deck A and B.	Connect the frequency counter between E.H & GND on Deck A, between E.H & GND on Deck B.	REC	B DECK: L3	After confirming BEAT CANCEL OFF, adjust so that the frequency counter shows 105kHz.	

※Equipment connection : Refer to page 34.

AJUSTE

Cassette Deck seccíon

Orden	Ítem	Ajuste de entrada	Ajuste de salida	Ajuste de la platina	Puntos de ajuste	MÈtodo de ajuste	Fig.
A menos que se indique lo contrario, ajustar los interruptores respectivos de la manera siguiente: TAPE: NORMAL DOLBY: OFF INPUT: AUX (NIVEL DE AUX : MAX) I. Sección del mecanismo de la cassette (ajuste de la cabeza de grabación/reproducción)							
1	Desmagnetización y limpieza	—	—	Alimentación: apagado, desmagnetización, limpieza, reproducción	Cabezas de grabación, cabezas de borrado, ejes de arrastre, rodillos presores	Desmagnetizar las cabezas de grabación/reproducción con un borrador de cabezas. Limpiar las cabezas de grabación/ reproducción, cabezas de borrado, ejes de arrastre y rodillos presores con un bastoncillo de algodón humedecido en alcohol.	
2	Acimut de la cabeza de grabación/ reproducción	SCC-1727, TCC-153, MTT-144, 10kHz, -10dBs	(B)	REPRODUCCIÓN (PLAY)	Tornillo de ajuste del acimut	Maximizar la salida y ajustar de manera que la forma de Lissajous se aproxime a una lÌnea inclinada 45˚	
II. Ajuste de la tarjeta de circuito impreso Nota: Efectuar primero el ajuste de la velocidad doble.							
1	Velocidad de la cinta (doble)	SCC-1727, TCC-110, MTT-144, 3kHz	(B)	DespuÈs de la reproducción normal, cortocircuitar siempre la base de Q7 con masa (GND) para ajustarlo en alta velocidad.	PLATINA A: VR7 PLATINA B: VR1	Ajustar de manera que la frecuencia sea de 6 kHz en el centro de la cinta.	
2	Velocidad de la cinta (normal)	SCC-1727, TCC-110, MTT-111, 3kHz	(B)		PLATINA A: VR8 PLATINA B: VR2	Ajustar de manera que la frecuencia sea de 3 kHz en el centro de la cinta.	
III. Ajuste de la tarjeta de circuito impreso (X28-2620-00)							
1	Nivel de reproducción	MTT-150 400Hz	(B)	REPRODUCCI"N (PLAY)	PLATINA A: VR9 (IZQ.) VR10 (DCH.) PLATINA B: VR3 (IZQ.) VR4 (DCH.)	Ajustar los contactos nº1 (canal izq.) y nº 4 (canal dch.) de CN401 en -0,5 dBs. O ajustar los contactos nº 8 (canal izq.) y nº 49 (canal dch.) de IC401 en 775 mV.	
2	Corriente de polarización	ENTRADA : AUX 1kHz , -10dBs 10kHz, -30dBs	(B)	Ajustar el entrada AUX de manerfa que la salida de comprobaciÛn de volumen de CN401 sea de -20 dBs a 1 kHz, y grabar y reproducir 1 kHz y 10 kHz alternadamente.	PLATINA B: VR5 (IZQ.) VR6 (DCH.)	Grabar 1 Mhz y 10 kHz recÌprocamente, y ajustar de manera que sean idÈnticos en el nivel de reproducciÛn.	
3	FRECUENCIA DE OSCILACIÓN DE LA POLARIZACIÓN	Cargar las cintas sin grabar en las platinas A y B.	Conectar el contador de frecuencias entre E.H. y masa de la platina A y entre E.H. y masa de la platina B.	GRABACIÓN (REC)	PLATINA B: L3	Después de confirmar que la cancelación de batido (BEAT CANCEL) est· desactivada, ajustar de manera que el contador de frecuencias indique 105 kHz.	

※Conectar de equivalent : como sigue page 34.

ADJUSTMENT

TUNER section

K.P.M.X.R, I Type (X29-249X)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	

E.T.G Type (X29-248X)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		BAND : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75 kHz dev 60 dBμ(ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0MHz	L3 (X05-)	0V	(c)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25 kHz dev Pilot : ±7.5kHz dev 60 dBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	
3	SEPARATION	(C) 98.0MHz 1kHz,±40 kHz dev Pilot : ±6kHz dev Selector : L or R 60 dBμ(ANT input)	(B)	AUTO 98.0MHz	VR3 (X29-)	Minimum crosstaik.	
4	TUNING LEVEL	(C) 98.0MHz 1kHz,±75 kHz dev 14dBμ(ANT input) 75Ω 18dBμ(ANT input) 300Ω	(B)	AUTO or MONO 98.0MHz	VR1 (X29-)	Adjust VR1 and stop at the point where FL201(TUNED) goes ON.	
AM SECTION		BAND : AM(MW)					
1	TUNING LEVEL	(D) 1008MHz 400Hz, 30% mod 26 dBμ(ANT input)	(B)	1008 kHz	VR2 (X29-)	Adjust VR2 and stop at the point where FL201(TUNED) goes ON.	

※Equipment connection : Refer to page 34.

AJUSTE

TUNER seccíon

Tipo K.P.M.X.R, I (X29-249X)

No	íTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE CALIBRACIÓN	CALIBRA R EN	FIG.
SECCIÓN DE FM		**BANDA: FM**					
1	DISTORSIÓN (ESTÉREO)	(C) 98,0 MHz 1 kHz, ±68,25 kHz desv. Piloto: ±7,5 kHz desv. 60 dBμ (entrada ANT)	(B)	AUTO 98,0 Mhz	IFT (W02-)	Distorsión mínima	

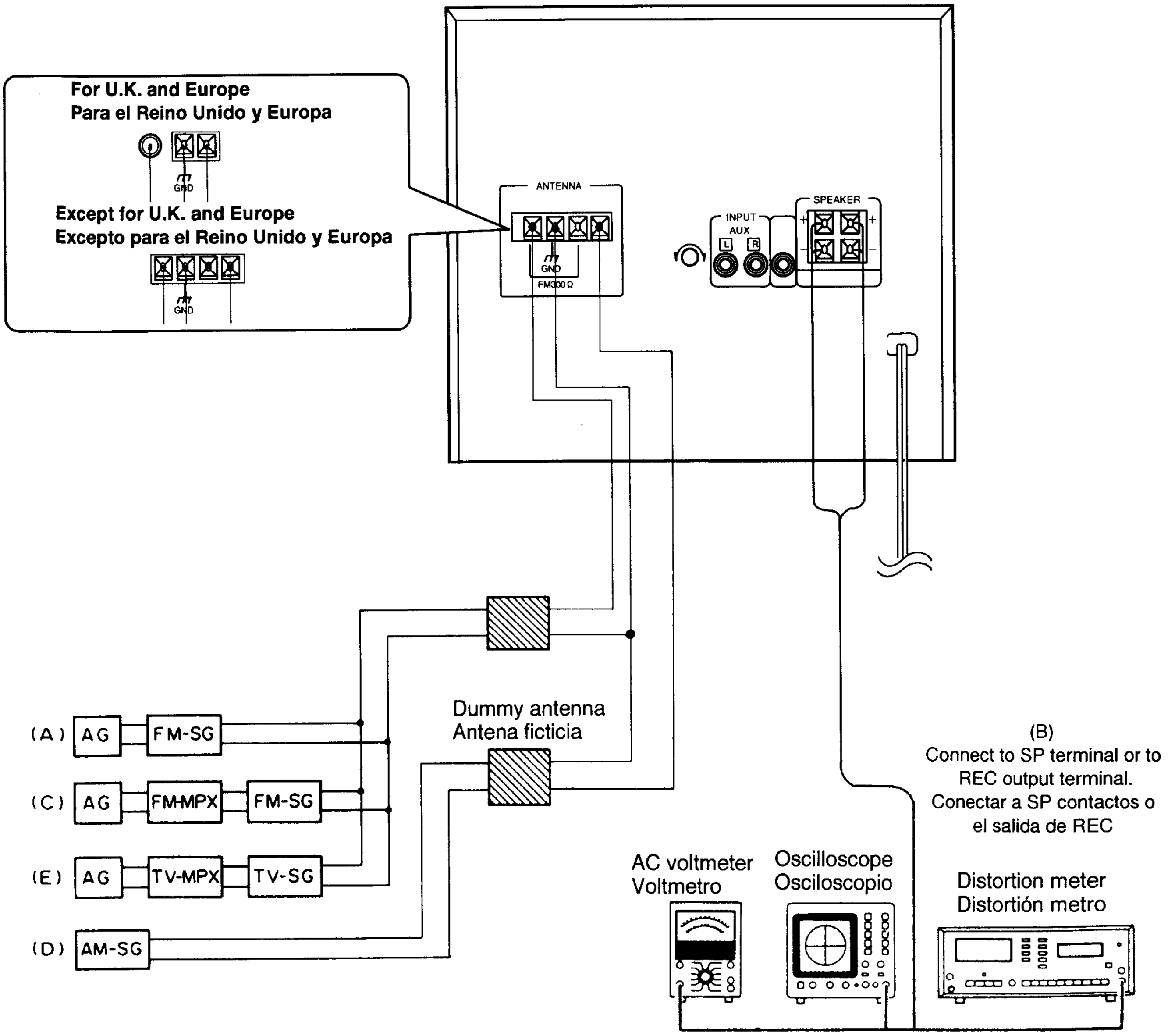
Tipo E.T.G(X29-248X)

No	íTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE CALIBRACIÓN	CALIBRA R EN	FIG.
FM SECTION		**BAND : FM**					
1	DISCRIMINADOR	(A) 98,0 MHz 1 kHz, ±75 kHz desv. 60 dBμ (entrada ANT)	Conectar un voltìmetro de CC entre TP3 y TP4. (X05-)	AUTO o MONO 98,0 MHz	L3 (X05-)	0V	(c)
2	DISTORSIÓN (ESTÉREO)	(C) 98,0 MHz 1 kHz, ±68,25 kHz desv. Piloto: ±7,5 kHz desv. 60 dBm (entrada ANT)	(B)	AUTO 98,0 MHz	IFT (W02-)	Distorsión mínima	
3	SEPARACIÓN	(C) 98,0 MHz 1 kHz, ±40 kHz desv. Piloto: ±6 kHz desv. Selector: L o R 60 dBm (entrada ANT)	(B)	AUTO 98,0 MHz	VR3 (X29-)	Diafonía mníima	
4	NIVEL DE SINTÓNA	(A) 98,0 MHz 1 kHz, ±75 kHz desv. 14 dBμ(entrada ANT) 75 Ω 14 dBm(entrada ANT) 300 Ω	(B)	AUTO o MONO 98,0 MHz	VR1 (X29-)	Ajustar VR1 y parar en el punto donde se activa FL201 (TUNED)	
SECCIÓN DE AM		**BANDA: AM (OM)**					
1	NIVEL DE SINTÓNA	(D) 1008 kHz 400 Hz, 30% mod. 26 dBμ (entrada ANT)	(B)	1008 kHz	VR2 (X29-)	Ajustar VR2 y parar en el punto donde se activa FL201 (TUNED)	

※Conectar de equivalent : como sigue page 34.

ADJUSTMENT

(c)

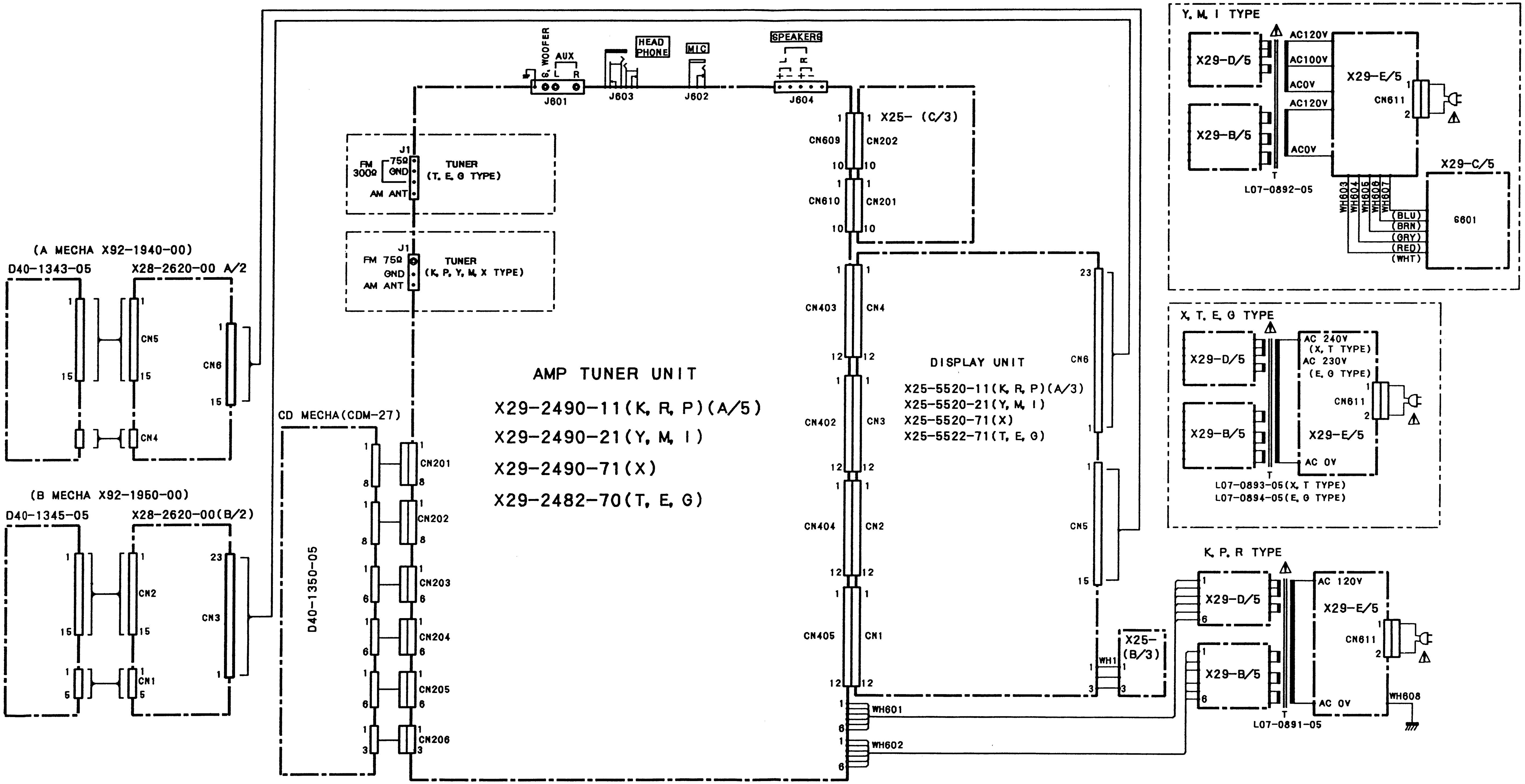

For U.K. and Europe
Para el Reino Unido y Europa
GND
Except for U.K. and Europe
Excepto para el Reino Unido y Europa
GND
ANTENNA
GND
FM300Ω
INPUT
AUX
L
R
SPEAKER
+
+
-
-
(A)
AG
FM-SG
(C)
AG
FM-MPX
FM-SG
(E)
AG
TV-MPX
TV-SG
(D)
AM-SG
Dummy antenna
Antena ficticia
AC voltmeter
Voltmetro
Oscilloscope
Osciloscopio
(B)
Connect to SP terminal or to REC output terminal.
Conectar a SP contactos o el salida de REC
Distortion meter
Distortión metro

REC output : for X29 L ch, connect CN401 pin 1 to GND;
for X29 R ch, connect CN401 pin 4 toGND.

Salida de REC : X29 canal izp., Conectar CN401 contactos no 1 a masa.
X29 canal dch., Conectar CN401 contactos no 4 a masa.

RXD-C3/C3L RXD-C3/C3L

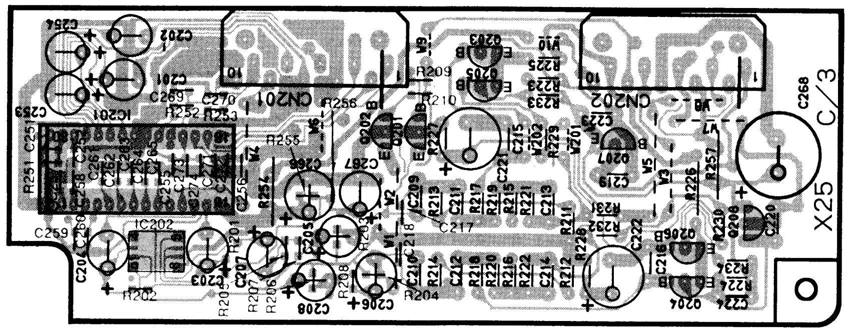
WIRING DIAGRAM

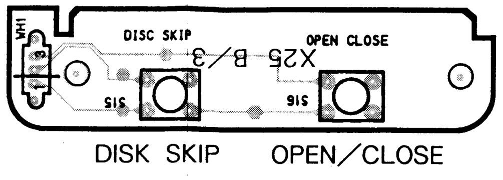

(A MECHA X92-1940-00)
D40-1343-05
X28-2620-00 A/2
CN5
CN6
CN4
(B MECHA X92-1950-00)
D40-1345-05
X28-2620-00(B/2)
CN2
CN3
CN1
CD MECHA(CDM-27)
D40-1350-05
CN201
CN202
CN203
CN204
CN205
CN206
S. WOOFER
AUX
L R
J601
HEAD PHONE
J603
MIC
J602
SPEAKERS
L R
J604
J1
FM 300Ω
75Ω
GND
AM ANT
TUNER
(T, E, G TYPE)
J1
FM 75Ω
GND
AM ANT
TUNER
(K, P, Y, M, X TYPE)
AMP TUNER UNIT
X29-2490-11(K, R, P)(A/5)
X29-2490-21(Y, M, I)
X29-2490-71(X)
X29-2482-70(T, E, G)
CN609
CN610
X25- (C/3)
CN202
CN201
CN403
CN402
CN404
CN405
CN4
CN3
CN2
CN1
DISPLAY UNIT
CN6
CN5
X25-5520-11(K, R, P)(A/3)
X25-5520-21(Y, M, I)
X25-5520-71(X)
X25-5522-71(T, E, G)
X25-
(B/3)
WH1
WH601
WH602
Y, M, I TYPE
X29-D/5
X29-B/5
AC120V
AC100V
AC0V
AC120V
AC0V
X29-E/5
CN611
L07-0892-05
WH603
WH604
WH605
WH606
WH607
(BLU)
(BRN)
(GRY)
(RED)
(WHT)
X29-C/5
6601
X, T, E, G TYPE
X29-D/5
X29-B/5
AC 240V
(X, T TYPE)
AC 230V
(E, G TYPE)
CN611
X29-E/5
AC 0V
L07-0893-05(X, T TYPE)
L07-0894-05(E, G TYPE)
K, P, R TYPE
X29-D/5
X29-B/5
AC 120V
X29-E/5
CN611
AC 0V
WH608
L07-0891-05

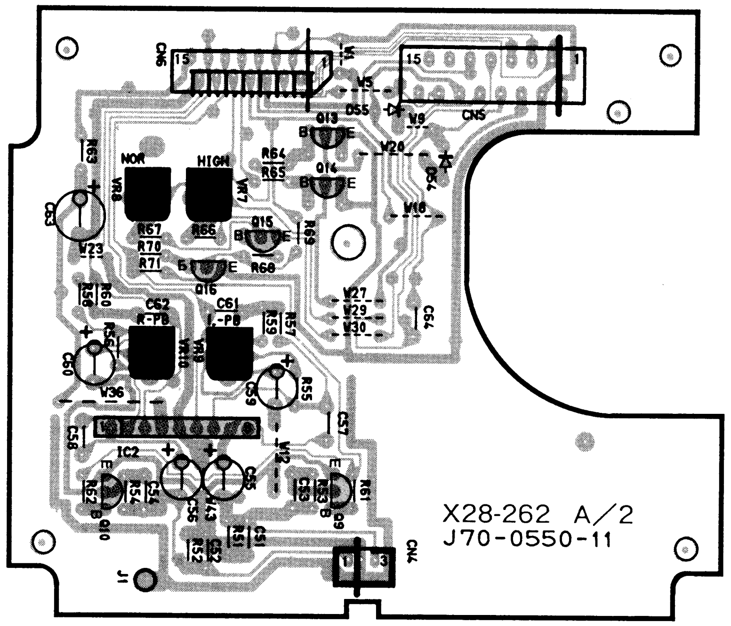
PC BOARD(Component Side View)

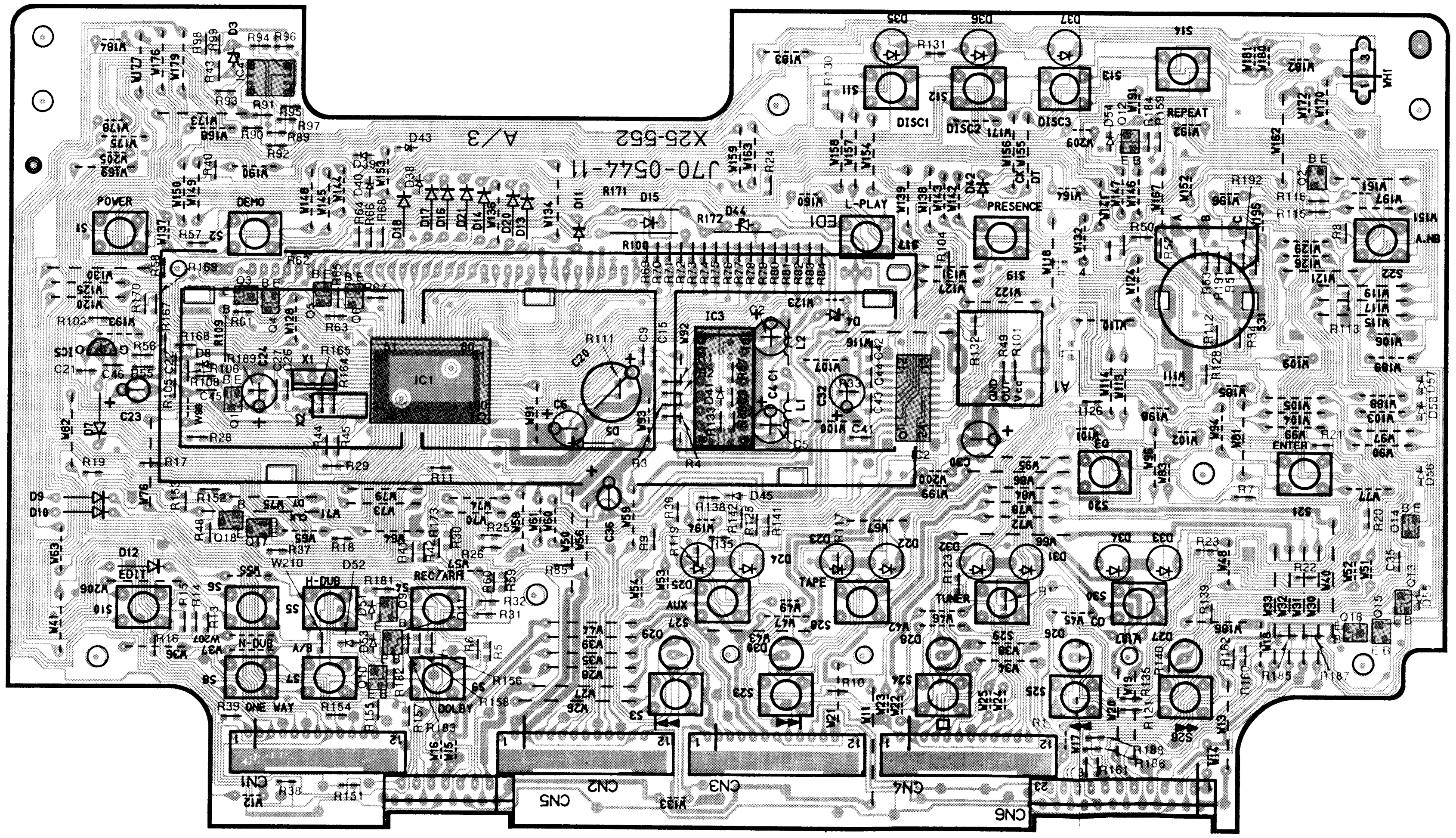
DISPLAY UNIT (X25-5520-11) : K, P, R TYPE
(X25-5520-21) : Y, M, I TYPE
(X25-5520-71) : X, TYPE
(X25-5522-71) : E, T, G TYPE

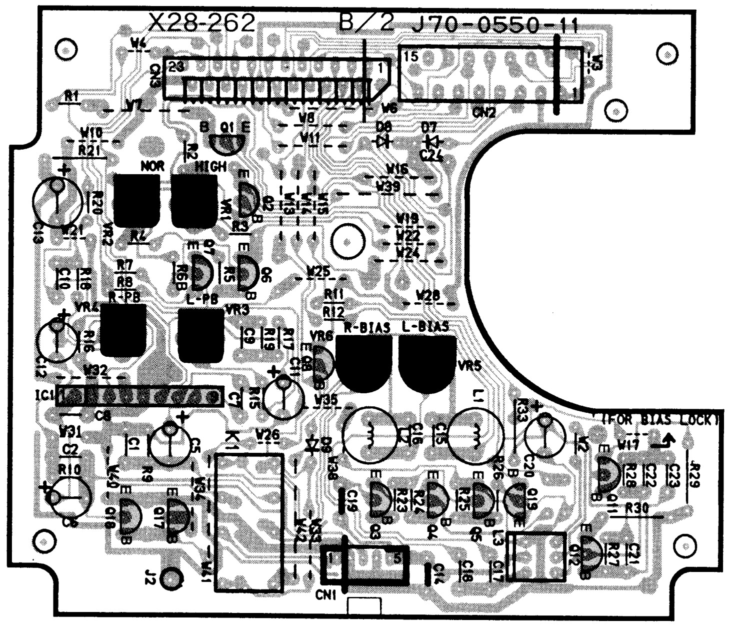
RECORD/PLAYBACK UNIT(X28-2620-00)


X25 C/3
CN201
CN202
IC201
IC202
C268


X25 B/3
DISC SKIP
OPEN CLOSE
S15
S16
WH1
DISK SKIP
OPEN/CLOSE


X28-262 A/2
J70-0550-11
CN6
CN5
CN4
IC2
NOR
HIGH
J1

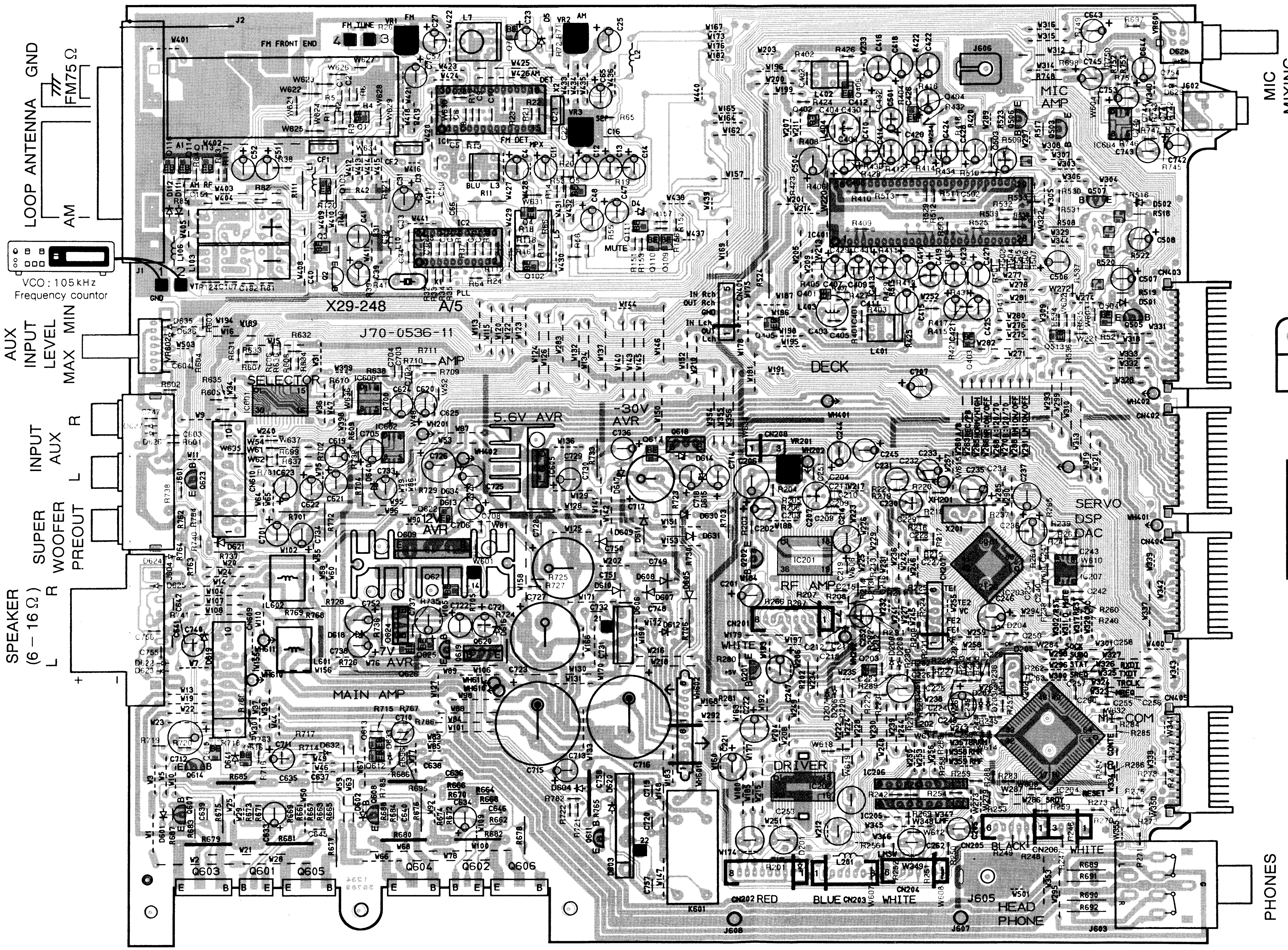

X25-552 A/3
J70-0544-11
POWER
DEMO
DISC1
DISC2
DISC3
REPEAT
L-PLAY
PRESENCE
EQ
ENTER
EDIT
H-DUB
N-DUB
A/B
REC/ARM
DOLBY
ONE WAY
AUX
TAPE
TUNER
IC1
IC3
CN1
CN2
CN3
CN4
CN5
CN6
WH1

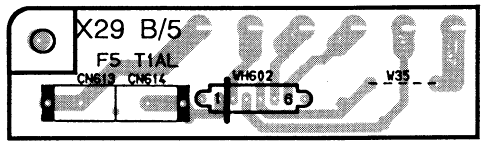

X28-262 B/2 J70-0550-11
CN3
CN2
CN1
IC1
NOR
HIGH
R-PB
L-PB
R-BIAS
L-BIAS
(FOR BIAS LOCK)
J2
K1

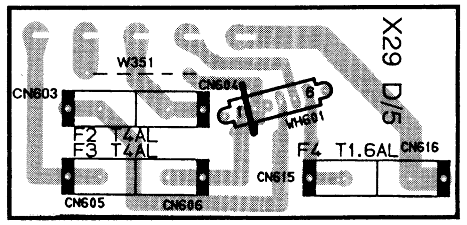
Refer to the schematic diagram for the values of resistors and capacitors.

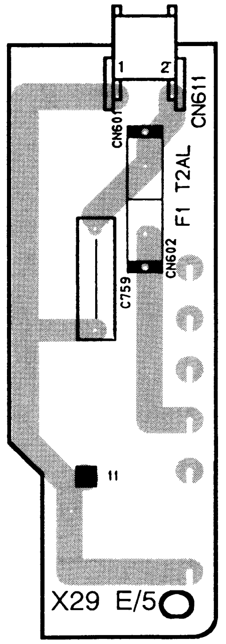
PC BOARD(Component Side View)

MAIN UNIT-TUNER(X29-2482-70) : E, T, G TYPE


LOOP ANTENNA
GND
FM75 Ω
AM
VCO : 105 kHz
Frequency countor
GND
AUX INPUT LEVEL
MAX MIN
INPUT AUX
R
L
SUPER WOOFER PREOUT
SPEAKER (6 – 16 Ω)
R
L
+
–
FM FRONT END
FM TUNE
FM
AM
FM DET
MPX
DET
MUTE
PLL
X29-248 A/5
J70-0536-11
SELECTOR
AMP
5.6V AVR
-30V AVR
12V AVR
+7V AVR
MAIN AMP
DECK
IN Rch
OUT Rch
GND
IN Lch
OUT Lch
MIC AMP
SERVO DSP DAC
RF AMP
WHITE
DRIVER
M I-COM
RESET
BLACK
WHITE
CN202 RED
BLUE CN203
CN204 WHITE
J605 HEAD PHONE
Q603
Q601
Q605
Q604
Q602
Q606
MIC MIXING
PHONES


X29 B/5
F5 T1AL
CN613
CN614
W602
W35


X29 D/5
W351
CN603
CN604
F2 T4AL
F3 T4AL
F4 T1.6AL
CN616
CN615
CN605
CN606

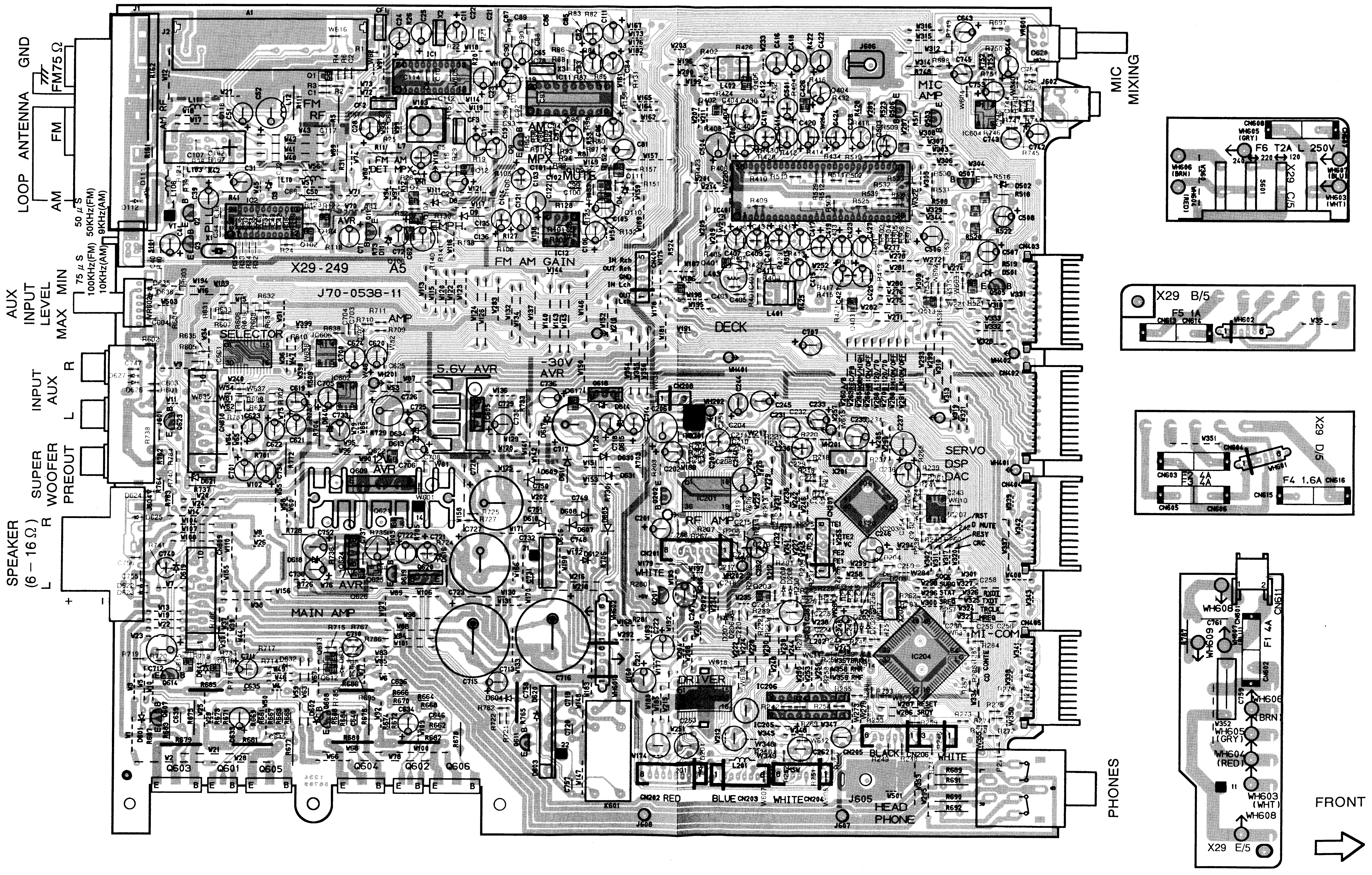

CN611
CN601
F1 T2AL
CN602
C759
X29 E/5

FRONT

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD(Component Side View)

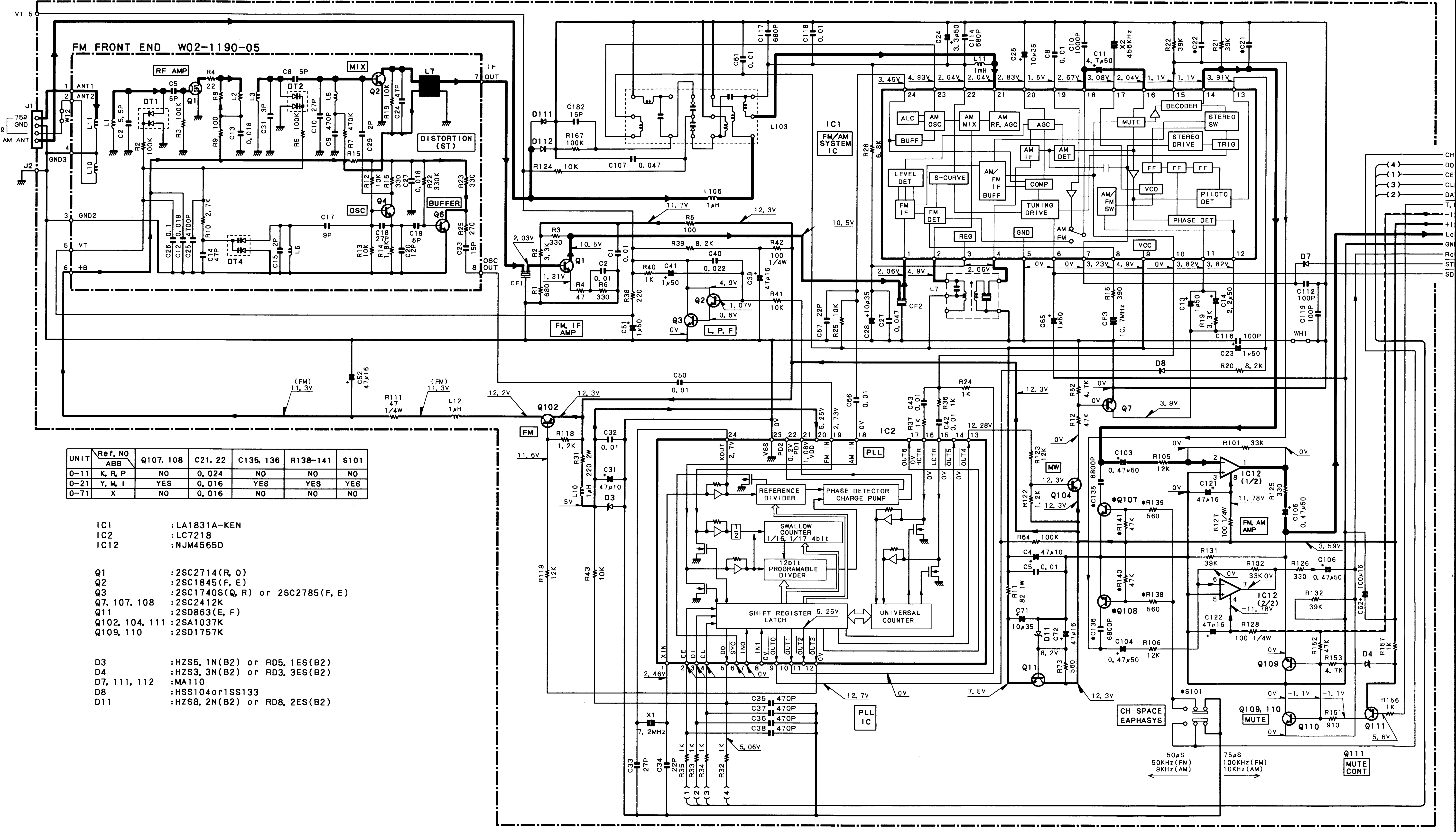
MAIN UNIT-TUNER (X29-2490-11) : K, P, R, TYPE
(X29-2490-21) : Y, M, I TYPE
(X29-2490-71) : X TYPE



LOOP ANTENNA
AM
FM
GND
FM75 Ω
50 μS 50KHz(FM) 9KHz(AM)
75 μS 100KHz(FM) 10KHz(AM)
AUX INPUT LEVEL MAX MIN
INPUT AUX R L
SUPER WOOFER PREOUT
SPEAKER (6 – 16 Ω) R L
X29-249
J70-0538-11
A5
FM RF
FM AM DET MPX
AM
MPX
MUTE
EMPH
PLL
AVR
FM AM GAIN
SELECTOR
AMP
5.6V AVR
-30V AVR
DECK
MAIN AMP
RF AMP
SERVO DSP DAC
MI-COM
DRIVER
MIC AMP
MIC MIXING
J605 HEAD PHONE
PHONES
CN202 RED
BLUE CN203
WHITE CN204
CN205 BLACK
CN206 WHITE
Q603 Q601 Q605 Q604 Q602 Q606
X29 C/5
F6 T2A L 250V
WH605 (GRY)
WH606 (BRN)
WH607 (BLU)
WH603 (WHT)
X29 B/5
F5 1A
WH602
X29 D/5
F2 4A
F3 4A
F4 1.6A
CN603 CN604 CN605 CN606 CN615 CN616
X29 E/5
F1 4A
WH608
WH609
WH606 (BRN)
WH605 (GRY)
WH604 (RED)
WH603 (WHT)
CN611
FRONT
K L M N O P Q R S T
1 2 3 4 5 6 7

Refer to the schematic diagram for the values of resistors and capacitors.

X29-2490-XX (K, R, P, Y, M, I, X TYPE) TUNER


FM FRONT END W02-1190-05
RF AMP
MIX
OSC
BUFFER
DISTORTION (ST)
L7
IF OUT
OSC OUT
VT
ANT1
ANT2
GND3
GND2
+B
J1
J2
FM 75Ω
300Ω
GND
AM ANT
DT1
DT2
DT4
Q1
Q2
Q4
Q6
FM IF AMP
L.P.F
Q2
Q3
CF1
CF2
L103
L106 1μH
IC1 FM/AM SYSTEM IC
ALC
AM OSC
AM MIX
AM RF. AGC
AGC
BUFF
AM IF
AM DET
MUTE
DECODER
STEREO SW
STEREO DRIVE
TRIG
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
TUNING DRIVE
FM IF
FM DET
REG
GND
VCO
FF
PILOTO DET
PHASE DET
AM/FM SW
VCC
X2 456KHz
Q102
FM
Q7
IC2
PLL
XOUT
VSS
PD2
PD1
VDD
FM IN
AM IN
OUT6
HCTR
LCTR
OUT5
OUT4
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
XIN
CE
DI
CL
DO
SYC
IN1
IN0
OUT0
OUT1
OUT2
OUT3
X1 7.2MHz
PLL IC
MW
Q104
Q107
Q108
Q11
IC12 (1/2)
IC12 (2/2)
FM, AM AMP
Q109
Q110
Q111
Q109, 110 MUTE
Q111 MUTE CONT
S101
CH SPACE EAPHASYS
50μS 50KHz(FM) 9KHz(AM)
75μS 100KHz(FM) 10KHz(AM)
D3
D4
D7
D8
D11
WH1
CH
DO
CE
CL
DA
Lc
Rc
ST
SD

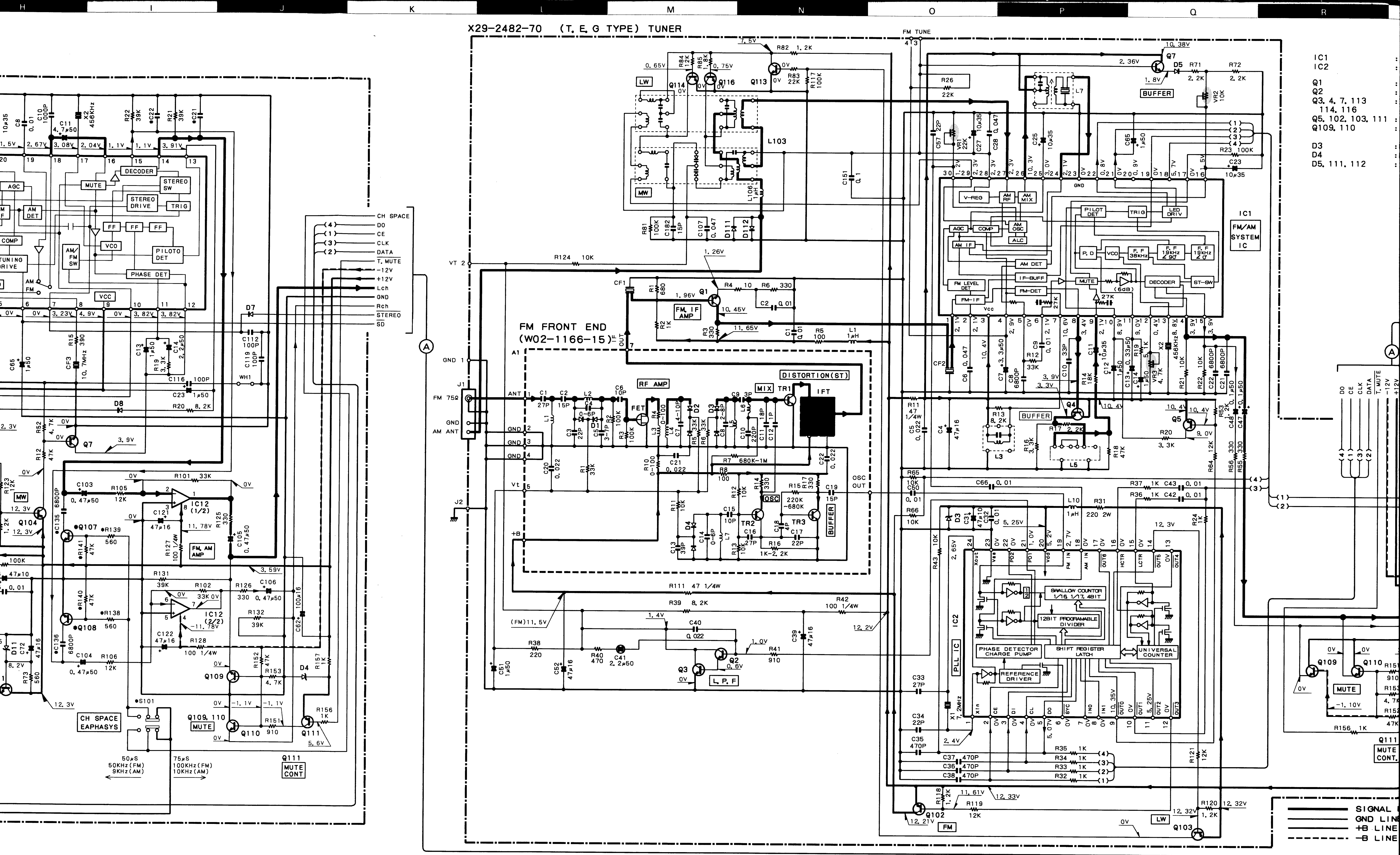
UNIT	Ref. NO ABB	Q107, 108	C21, 22	C135, 136	R138~141	S101
0-11	K, R, P	NO	0.024	NO	NO	NO
0-21	Y, M, I	YES	0.016	YES	YES	YES
0-71	X	NO	0.016	NO	NO	NO

IC1 :LA1831A-KEN
IC2 :LC7218
IC12 :NJM4565D

Q1 :2SC2714(R, O)
Q2 :2SC1845(F, E)
Q3 :2SC1740S(Q, R) or 2SC2785(F, E)
Q7, 107, 108 :2SC2412K
Q11 :2SD863(E, F)
Q102, 104, 111 :2SA1037K
Q109, 110 :2SD1757K

D3 :HZS5. 1N(B2) or RD5. 1ES(B2)
D4 :HZS3. 3N(B2) or RD3. 3ES(B2)
D7, 111, 112 :MA110
D8 :HSS104or1SS133
D11 :HZS8. 2N(B2) or RD8. 2ES(B2)

X29-2482-70 (T, E, G TYPE) TUNER


H
I
J
K
L
M
N
O
P
Q
R
FM FRONT END
(W02-1166-15)
RF AMP
MIX
DISTORTION(ST)
IFT
OSC
BUFFER
FM IF AMP
L. P. F
FM TUNE
FM 75Ω
AM ANT
GND
ANT
VT
OSC OUT
J1
J2
CF1
CF2
L103
LW
MW
FM
IC1
FM/AM SYSTEM IC
IC2
PLL IC
V-REG
AM RF
AM MIX
AM OSC
ALC
AGC
COMP
AM IF
AM DET
PILOT DET
TRIG
LED DRIV
P. D
VCO
F. F 38kHz
F. F 19kHz
DECODER
ST-SW
MUTE
FM LEVEL DET
I F-BUFF
FM-DET
FM-IF
SWALLOW COUNTOR 1/16 1/17 4BIT
12BIT PROGRAMABLE DIVIDER
PHASE DETECTOR CHARGE PUMP
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
REFERENCE DRIVER
IC12 (1/2)
IC12 (2/2)
FM, AM AMP
CH SPACE EAPHASYS
Q109, 110 MUTE
Q111 MUTE CONT
MUTE CONT.
STEREO SW
STEREO DRIVE
PILOTO DET
PHASE DET
AM/FM SW
TUNING DRIVE
CH SPACE
DO
CE
CLK
DATA
T. MUTE
-12V
+12V
Lch
GND
Rch
STEREO
SD
50μS 50KHz(FM) 9KHz(AM)
75μS 100KHz(FM) 10KHz(AM)
SIGNAL
GND LINE
+B LINE
-B LINE

IC1 :
IC2 :

Q1 :
Q2 :
Q3, 4, 7, 113
114, 116 :
Q5, 102, 103, 111 :
Q109, 110 :

D3 :
D4 :
D5, 111, 112 :

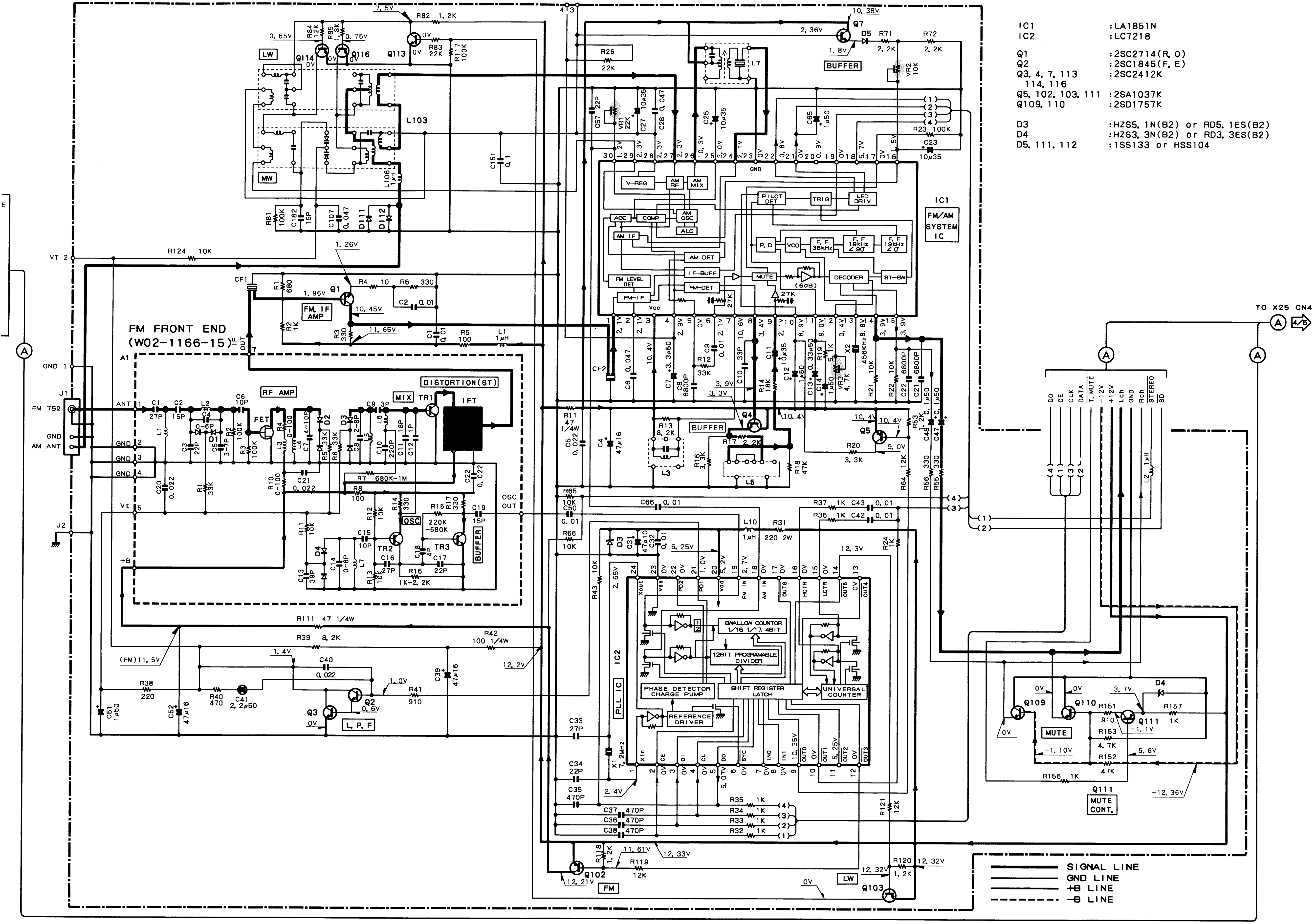
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhèrentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, repla
nents only with manufacturer's reco
parts list). ⚠ Indicates safety critical co
risk of electric shock, leakage-current or
shall be carried out (exposed parts are
the supply circuit) before the appliance
er.

X29-2482-70 (T, E, G TYPE) TUNER


K L M N O P Q R S T U
FM TUNE
LW
MW
L103
Q113
Q114
Q116
R82 1.2K
R83 22K
R117 100K
C151 0.1
R81 100K
C182 15P
C107 0.047
D111
D112
VT 2
R124 10K
CF1
Q1
R1 680
R2 1K
R3 330
R4 10
R6 330
C2 0.01
C1 0.01
R5 100
L1 1μH
FM IF AMP
FM FRONT END
(W02-1166-15)
IF OUT
A1
GND 1
J1
FM 75Ω
GND
AM ANT
ANT
GND 2
GND 3
GND 4
Vt 5
+B
J2
RF AMP
FET
MIX
TR1
IFT
DISTORTION(ST)
OSC
TR2
TR3
BUFFER
OSC OUT
R7 680K~1M
C21 0.022
C20 0.022
C22 0.022
R111 47 1/4W
R39 8.2K
R42 100 1/4W
(FM)11.5V
C40 0.022
R38 220
R40 470
C41 2.2μ50
Q2
Q3
L.P.F
R41 910
C39 47μ16
C51 1μ50
C52 47μ16
12.2V
CF2
IC1
FM/AM SYSTEM IC
V-REG
AM RF
AM MIX
AGC
COMP
AM OSC
ALC
AM IF
AM DET
PILOT DET
TRIG
LED DRIV
P.D
VCO
F.F 38kHz
F.F 19kHz ∠90°
F.F 19kHz ∠0°
FM LEVEL DET
IF-BUFF
FM-DET
FM-IF
MUTE
(6dB)
DECODER
ST-SW
Vcc
GND
R26 22K
C57 22P
VR1 22K
C27 10μ35
C28 0.047
C25 10μ35
L7
Q7
D5
R71 2.2K
R72 2.2K
VR2 10K
BUFFER
C65 1μ50
R23 100K
C23 10μ35
X2 456KHz
VR3 4.7K
R12 33K
R13 8.2K
L3
BUFFER
R17 2.2K
L5
Q4
Q5
R14 18K
R16 3.3K
R18 47K
R20 3.3K
R21 10K
R22 10K
C22 6800P
C21 6800P
R53 2.2K
C48 1μ50
C47 1μ50
R56 330
R55 330
R64 12K
C4 47μ16
C5 0.022
R11 47 1/4W
R65 10K
C50 0.01
R66 10K
C66 0.01
R37 1K
C43 0.01
R36 1K
C42 0.01
L10 1μH
R31 220 2W
R24 1K
D3
C31 47μ10
C32 0.01
R43 10K
IC2
PLL IC
SWALLOW COUNTOR 1/16 1/17 4BIT
12BIT PROGRAMABLE DIVIDER
PHASE DETECTOR CHARGE PUMP
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
REFERENCE DRIVER
X1 7.2MHz
C33 27P
C34 22P
C35 470P
C37 470P
C36 470P
C38 470P
R35 1K
R34 1K
R33 1K
R32 1K
R121 12K
R118 1.2K
R119 12K
Q102
FM
LW
Q103
R120 1.2K
TO X25 CN4
4/5
DO
CE
CLK
DATA
T.MUTE
-12V
+12V
Lch
GND
Rch
STEREO
SD
L2 1μH
Q109
Q110
Q111
D4
R151 910
R157 1K
R153 4.7K
R152 47K
R156 1K
MUTE
Q111 MUTE CONT.
-12.36V
SIGNAL LINE
GND LINE
+B LINE
-B LINE

IC1 :LA1851N
IC2 :LC7218

Q1 :2SC2714(R, O)
Q2 :2SC1845(F, E)
Q3, 4, 7, 113 114, 116 :2SC2412K
Q5, 102, 103, 111 :2SA1037K
Q109, 110 :2SD1757K

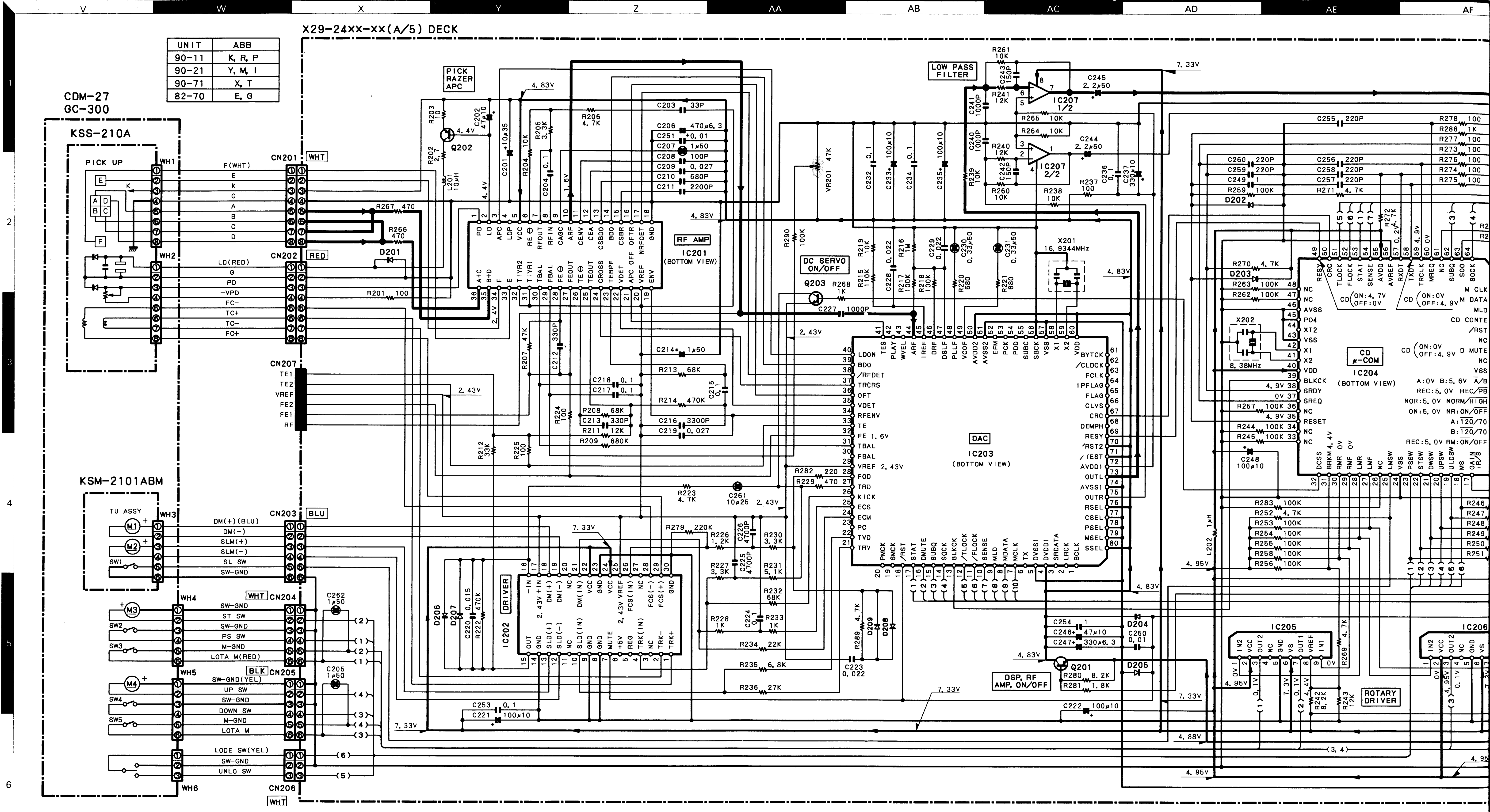
D3 :HZS5, 1N(B2) or RD5, 1ES(B2)
D4 :HZS3, 3N(B2) or RD3, 3ES(B2)
D5, 111, 112 :1SS133 or HSS104

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

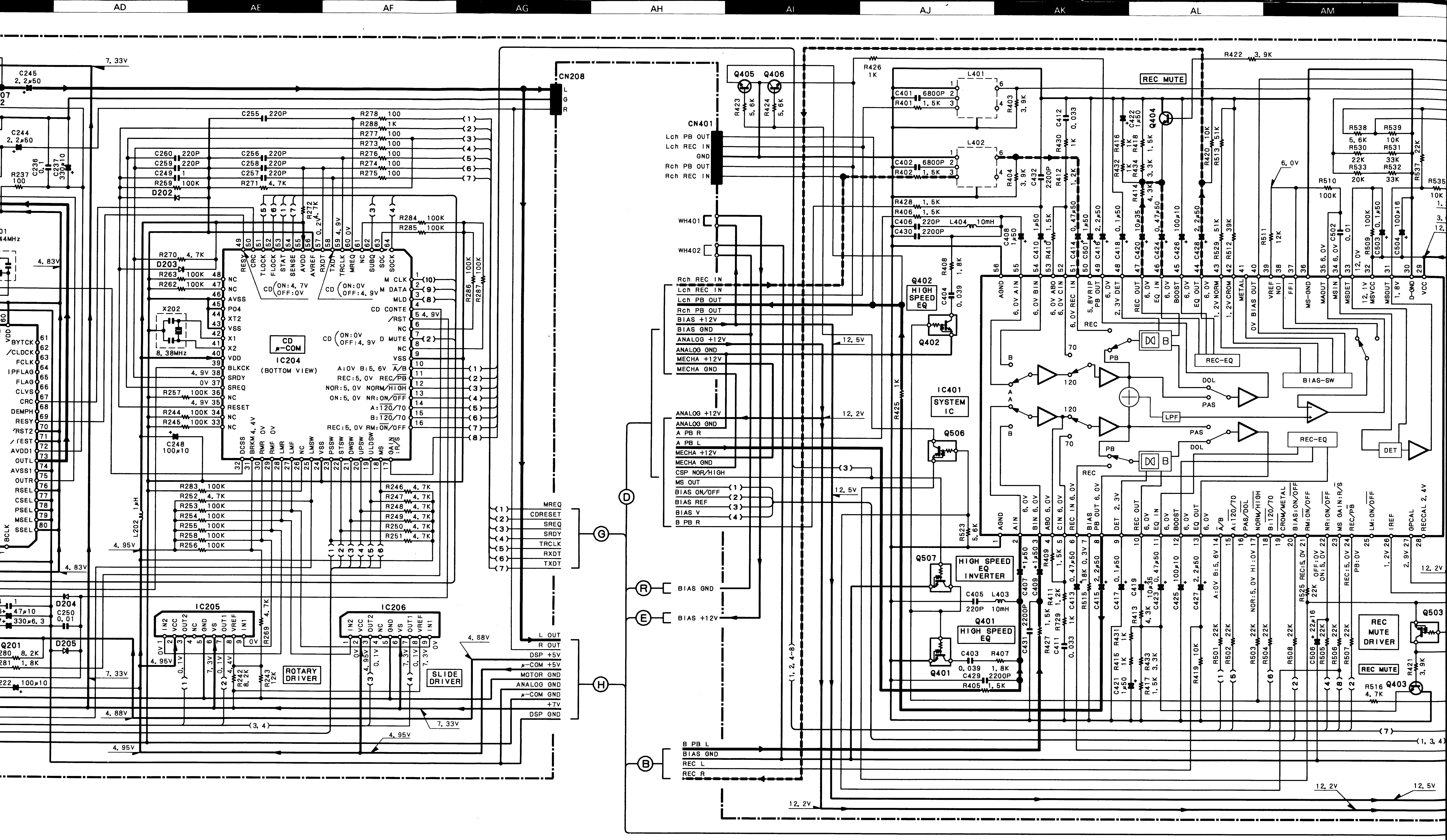


V
W
X
Y
Z
AA
AB
AC
AD
AE
AF
1
2
3
4
5
6
7
X29-24XX-XX(A/5) DECK
CDM-27
GC-300
KSS-210A
PICK UP
KSM-2101ABM
TU ASSY
CN201 WHT
CN202 RED
CN203 BLU
CN204 WHT
CN205 BLK
CN206 WHT
CN207
WH1
WH2
WH3
WH4
WH5
WH6
PICK RAZER APC
Q202
Q201
Q203
RF AMP
IC201 (BOTTOM VIEW)
DRIVER
IC202
DAC
IC203 (BOTTOM VIEW)
LOW PASS FILTER
IC207 1/2
IC207 2/2
X201 16.9344MHz
X202 8.38MHz
CD μ-COM
IC204 (BOTTOM VIEW)
IC205
IC206
ROTARY DRIVER
DC SERVO ON/OFF
DSP, RF AMP, ON/OFF
VR201 47K
7.33V
4.83V
2.43V
4.88V
4.95V

UNIT	ABB
90-11	K, R, P
90-21	Y, M, I
90-71	X, T
82-70	E, G

IC201	:AN8806SB	IC204	:μPD78012BGC-634	Q201	:2SA1534A(R, S)	D201-209 :MA110
IC202	:BA6398FP	IC205, 206	:TA8409S	Q202	:2SA954(L, K)	
IC203	:MN66271RA	IC207	:NJM2100M	Q203	:2SC2412K	

Die angegebenen
hochohmigen Sp
ken die Meßwerte
zelnen Instrument


AD
AE
AF
AG
AH
AI
AJ
AK
AL
AM
7.33V
C245
2.2µ50
C244
2.2µ60
C236 0.1
C237 330µ10
R237 100
CN208
L
G
R
C255 220P
R278 100
R288 1K
R277 100
R273 100
R276 100
R274 100
R275 100
C260 220P
C259 220P
C249 1
R259 100K
C256 220P
C258 220P
C257 220P
R271 4.7K
D202
R284 100K
R285 100K
R270 4.7K
D203
R263 100K
R262 100K
X202
8.38MHz
CD
µ-COM
IC204
(BOTTOM VIEW)
CD (ON:4.7V OFF:0V
CD (ON:0V OFF:4.9V
RESY
CRC
TLOCK
FLOCK
STAT
SENSE
AVDD
AVREF
RXDT
TXDT
TRCLK
MREQ
NC
SUBQ
SOC
SCCK
M CLK
M DATA
MLD
CD CONTE
/RST
D MUTE
VSS
A/B
REC/PB
NORM/HIGH
NR:ON/OFF
A:120/70
B:120/70
RM:ON/OFF
AVSS
PO4
XT2
X1
X2
VDD
BLKCK
SRDY
SREQ
RESET
DCSS
BRKM
RMR
RMF
LMR
LMF
LMSW
PSSW
STSW
DWSW
UPSW
ULDSW
MS
GAIN:R/S
A:0V B:5.6V
REC:5.0V
NOR:5.0V
ON:5.0V
REC:5.0V
R286 100K
R287 100K
R257 100K
R244 100K
R245 100K
C248 100µ10
L202 1µH
R283 100K
R252 4.7K
R253 100K
R254 100K
R255 100K
R258 100K
R256 100K
R246 4.7K
R247 4.7K
R248 4.7K
R249 4.7K
R250 4.7K
R251 4.7K
MREQ
CDRESET
SREQ
SRDY
TRCLK
RXDT
TXDT
IC205
IC206
IN2
VCC
OUT2
NC
GND
VS
OUT1
VREF
IN1
R269 4.7K
R242 8.2K
R243 12K
ROTARY DRIVER
SLIDE DRIVER
4.88V
L OUT
R OUT
DSP +5V
µ-COM +5V
MOTOR GND
ANALOG GND
µ-COM GND
+7V
DSP GND
4.95V
4.88V
4.83V
7.33V
D204
D205
C250 0.01
Q201
BYTCK
/CLDCK
FCLK
IPFLAG
FLAG
CLVS
CRC
DEMPH
RESY
/RST2
/TEST
AVDD1
OUTL
AVSS1
OUTR
RSEL
CSEL
PSEL
MSEL
SSEL
BCLK
CN401
Lch PB OUT
Lch REC IN
GND
Rch PB OUT
Rch REC IN
WH401
WH402
Q405
Q406
R423 5.6K
R424 5.6K
R426 1K
Rch REC IN
Lch REC IN
Lch PB OUT
Rch PB OUT
BIAS +12V
BIAS GND
ANALOG +12V
ANALOG GND
MECHA +12V
MECHA GND
ANALOG +12V
ANALOG GND
A PB R
A PB L
MECHA +12V
MECHA GND
CSP NOR/HIGH
MS OUT
BIAS ON/OFF
BIAS REF
BIAS V
B PB R
12.5V
12.2V
D
G
R
E
H
B
BIAS GND
BIAS +12V
B PB L
BIAS GND
REC L
REC R
12.2V
L401
L402
C401 6800P
R401 1.5K
C402 6800P
R402 1.5K
R403 3.9K
R404 3.9K
R428 1.5K
R406 1.5K
C406 220P
L404 10mH
C430 2200P
Q402
HIGH SPEED EQ
R408 1.8K
C404 0.039
R425 1K
IC401
SYSTEM IC
Q506
R523 5.6K
Q507
HIGH SPEED EQ INVERTER
C405 220P
L403 10mH
Q401
HIGH SPEED EQ
C403 0.039
R407 1.8K
C429 2200P
R405 1.5K
C431 2200P
R427 1.5K
C411 1.2K
R729 1.2K
REC MUTE
Q404
R422 3.9K
R538 5.6K
R539 10K
R530 22K
R531 33K
R533 20K
R532 33K
R510 100K
R535 10K
6.0V
AGND
AIN
BIN
ABO
CIN
REC IN
BIAS PB OUT
DET
REC OUT
EQ IN
BOOST
EQ OUT
A/B
PAS/DOL
NORM/HIGH
B:120/70
CROM/METAL
BIAS:ON/OFF
RM:ON/OFF
NR:ON/OFF
MS GAIN:R/S
REC/PB
LM:ON/OFF
IREF
9PCAL
RECCAL
5.8VRIP
METAL
0V BIAS OUT
VREF
NOI
FFI
MS-GND
MAOUT
MSIN
MSDET
12.1V MSVCC
MSOUT
D-GND
VCC
REC
PB
120
70
B
A
DOL
PAS
LPF
REC-EQ
BIAS-SW
DET
REC MUTE DRIVER
Q503
REC MUTE
R516 4.7K
Q403
R421 3.9K
12.2V
12.5V
(1, 2, 4~8)
(1, 3, 4)
(3, 4)
4.95V

IC401 :HA12182NT

Q401, 402 :DTC124EU
Q403, 404
405, 406 :2SD1757K
Q503, 506 :DTA124ES or UN4112

Q504, 513 :2SC2412K
Q505 :2SC3940A(R, S)
Q507 :DTC124ES

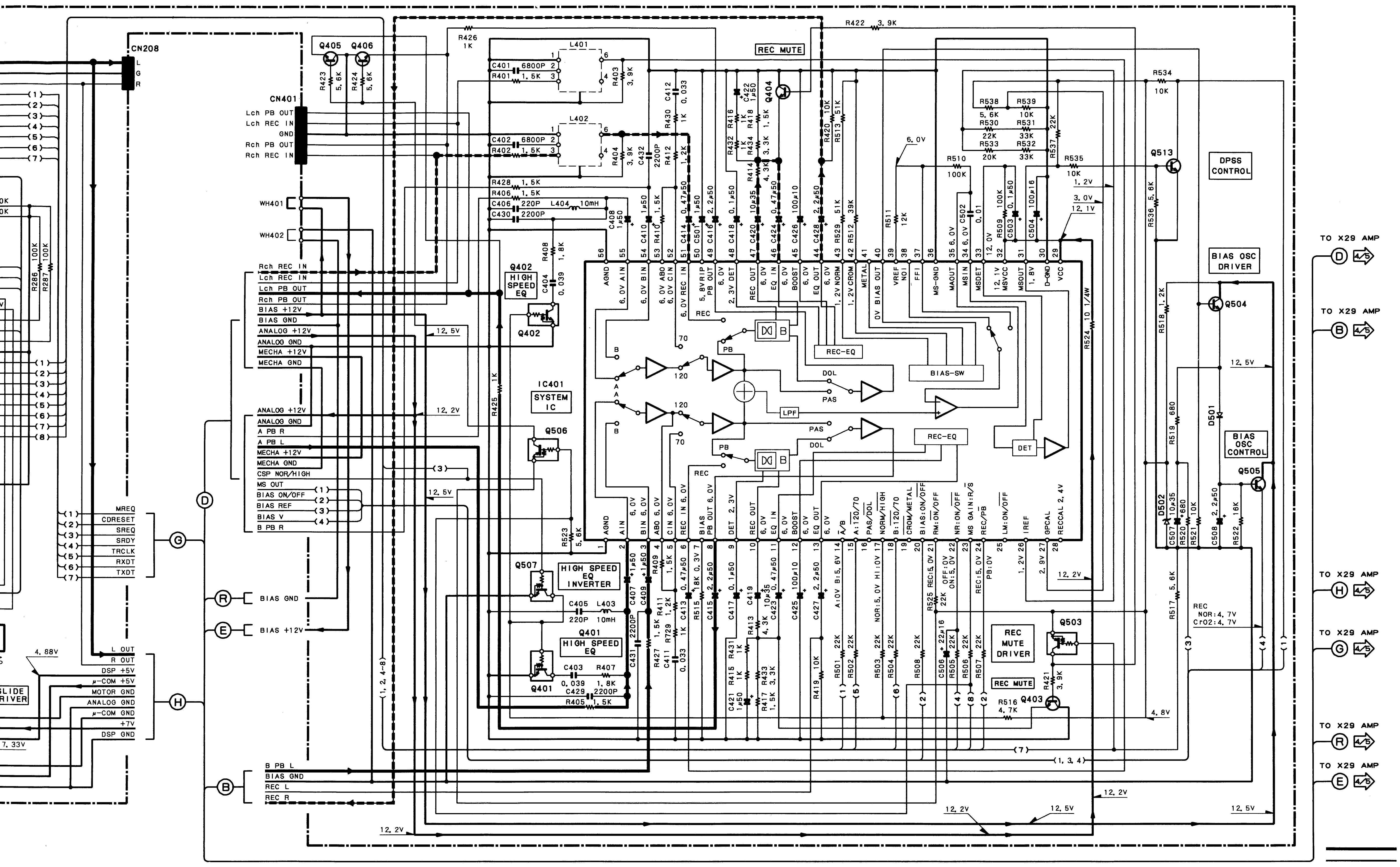
D501 :1SS133 or HSS104
D502 :HZS5.1N(B2)or RD5.1E

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

CAUTION: For continued safety, replace safety
nents only with manufacturer's recommended
parts list). ⚠ Indicates safety critical components
risk of electric shock, leakage-current or resistance
shall be carried out (exposed parts are acceptably
the supply circuit) before the appliance is returned
er.


CN208
CN401
Lch PB OUT
Lch REC IN
GND
Rch PB OUT
Rch REC IN
WH401
WH402
Q405 Q406
R423 5.6K
R424 5.6K
R426 1K
L401
L402
C401 6800P
R401 1.5K
C402 6800P
R402 1.5K
R403 3.9K
R404 3.9K
C432 2200P
R412 1.2K
R430 1K
C412 0.033
REC MUTE
Q404
R422 3.9K
R428 1.5K
R406 1.5K
C406 220P
L404 10mH
C430 2200P
Q402 HIGH SPEED EQ
R408 1.8K
C404 0.039
IC401 SYSTEM IC
Q506
Q507 HIGH SPEED EQ INVERTER
C405 220P
L403 10mH
Q401 HIGH SPEED EQ
C403 0.039
R407 1.8K
C429 2200P
R405 1.5K
R425 1K
R523 5.6K
Rch REC IN
Lch REC IN
Lch PB OUT
Rch PB OUT
BIAS +12V
BIAS GND
ANALOG +12V
ANALOG GND
MECHA +12V
MECHA GND
A PB R
A PB L
CSP NOR/HIGH
MS OUT
BIAS ON/OFF
BIAS REF
BIAS V
B PB R
MREQ
CDRESET
SREQ
SRDY
TRCLK
RXDT
TXDT
L OUT
R OUT
DSP +5V
μ-COM +5V
MOTOR GND
ANALOG GND
μ-COM GND
+7V
DSP GND
SLIDE DRIVER
4.88V
B PB L
BIAS GND
REC L
REC R
12.5V
12.2V
REC-EQ
BIAS-SW
DOL
PAS
LPF
DET
PB
REC
DPSS CONTROL
BIAS OSC DRIVER
BIAS OSC CONTROL
Q513
Q504
Q505
Q503
Q403
REC MUTE DRIVER
D501
D502
R534 10K
R538 5.6K
R539 10K
R530 22K
R531 33K
R533 20K
R532 33K
R537 22K
R535 10K
R510 100K
R536 5.6K
R518 1.2K
R524 10 1/4W
R519 680
R517 5.6K
R516 4.7K
R421 3.9K
REC NOR:4.7V CrO2:4.7V
4.8V
TO X29 AMP D
TO X29 AMP B
TO X29 AMP H
TO X29 AMP G
TO X29 AMP R
TO X29 AMP E
4/5

SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC401	:HA12182NT	Q401, 402	:DTC124EU	Q504, 513	:2SC2412K
		Q403, 404	:2SD1757K	Q505	:2SC3940A(R, S)
		405, 406		Q507	:DTC124ES
		Q503, 506	:DTA124ES or UN4112		

D501 :1SS133 or HSS104
D502 :HZS5.1N(B2)or RD5.1ES(B2)

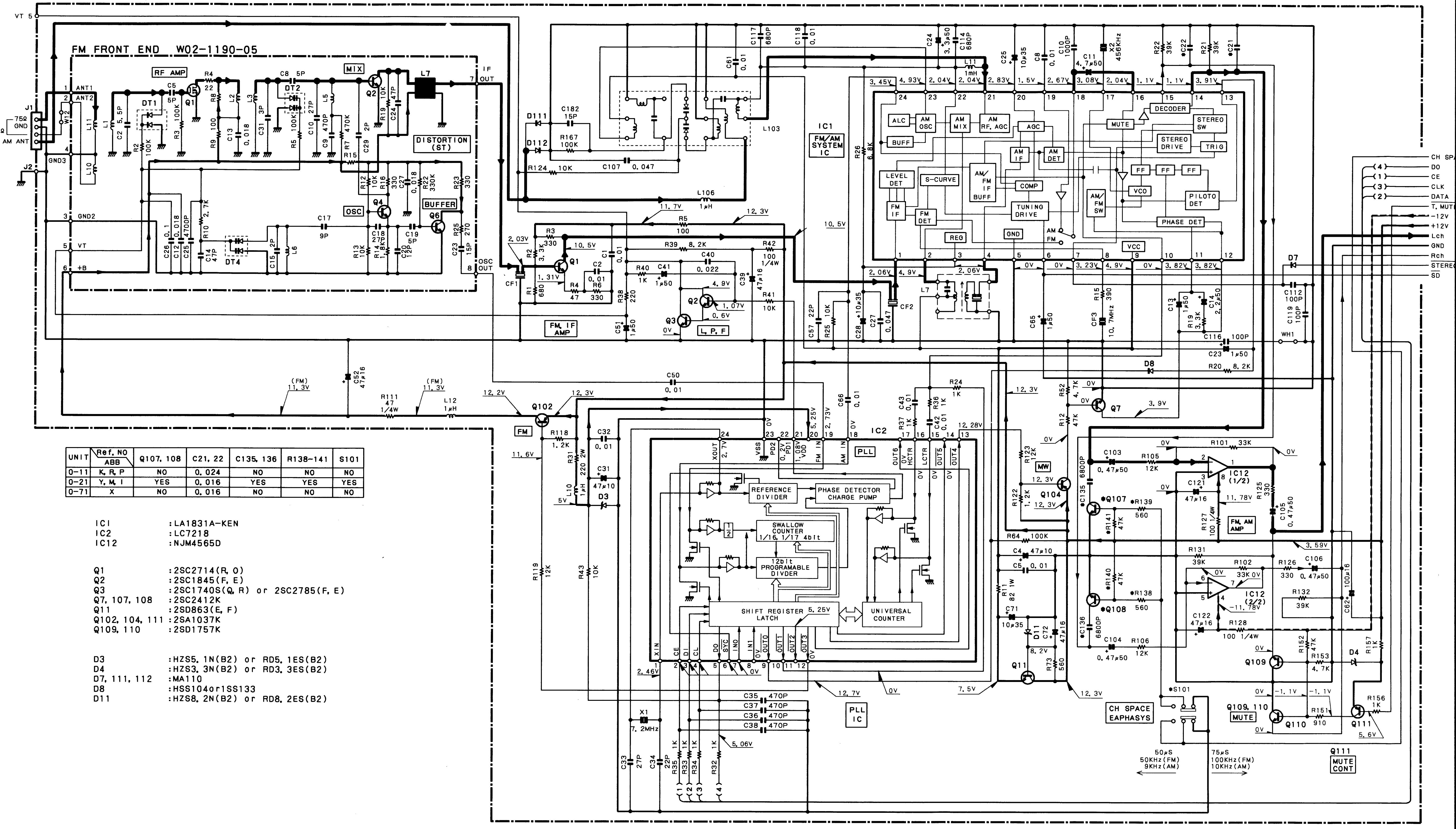
spannungswerte wurden mit einem smesser gemessen. Dabei schwan- nd von Unterschieden zwischen ein- Geräten u. U. geringfügig.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

X29-2490-XX (K, R, P, Y, M, I, X TYPE) TUNER

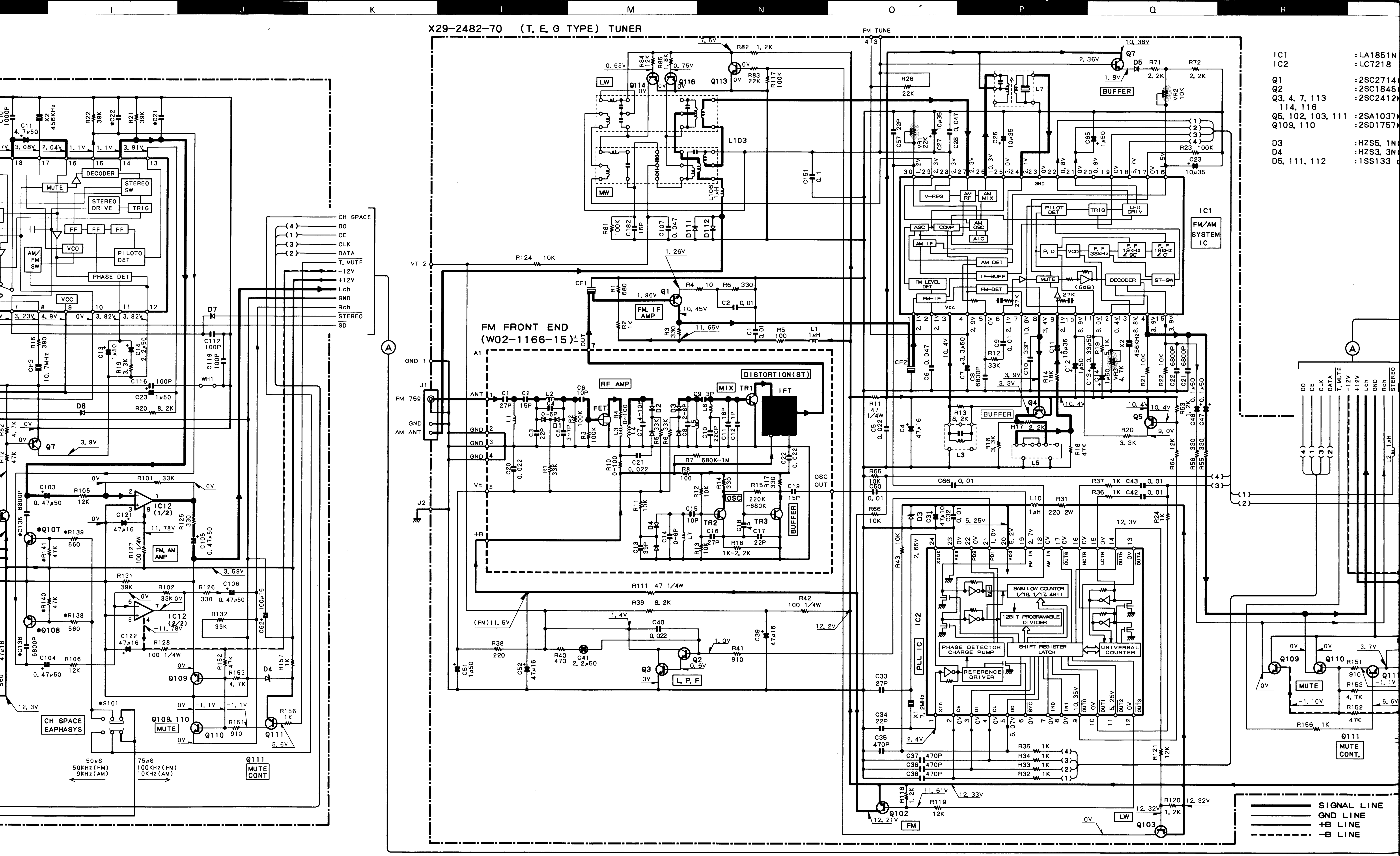

FM FRONT END W02-1190-05
RF AMP
MIX
OSC
BUFFER
DISTORTION (ST)
IF OUT
OSC OUT
J1
FM 300Ω
75Ω GND
AM ANT
J2
VT 5
ANT1
ANT2
GND3
GND2
VT
+B
FM, IF AMP
L, P, F
IC1
FM/AM SYSTEM IC
ALC
AM OSC
AM MIX
AM RF, AGC
AGC
BUFF
AM IF
AM DET
DECODER
STEREO SW
MUTE
STEREO DRIVE
TRIG
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
FF
VCO
PILOTO DET
AM/FM SW
FM IF
FM DET
TUNING DRIVE
REG
GND
PHASE DET
VCC
L103
CF1
CF2
CF3 10.7MHz
X2 456KHz
IC2
PLL
PLL IC
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
X1 7.2MHz
XIN
CE
DI
CL
DO
SYC
INO
IN1
OUT0
OUT1
OUT2
OUT3
XOUT
VSS
PD2
PD1
VDD
FM IN
AM IN
OUT6
HCTR
LCTR
OUT5
OUT4
Q102
FM
MW
Q104
Q107
Q108
Q7
Q11
IC12 (1/2)
IC12 (2/2)
FM, AM AMP
Q109
Q110
Q109, 110 MUTE
Q111
Q111 MUTE CONT
CH SPACE EAPHASYS
S101
50μS 50KHz(FM) 9KHz(AM)
75μS 100KHz(FM) 10KHz(AM)
CH SP
DO
CE
CLK
DATA
T. MUT
-12V
+12V
Lch
GND
Rch
STERE
SD
WH1
D7
D8
D4
D3
D11
D111
D112

UNIT	Ref. NO / ABB	Q107, 108	C21, 22	C135, 136	R138~141	S101
0-11	K, R, P	NO	0.024	NO	NO	NO
0-21	Y, M, I	YES	0.016	YES	YES	YES
0-71	X	NO	0.016	NO	NO	NO

IC1 :LA1831A-KEN
IC2 :LC7218
IC12 :NJM4565D

Q1 :2SC2714(R, O)
Q2 :2SC1845(F, E)
Q3 :2SC1740S(Q, R) or 2SC2785(F, E)
Q7, 107, 108 :2SC2412K
Q11 :2SD863(E, F)
Q102, 104, 111 :2SA1037K
Q109, 110 :2SD1757K

D3 :HZS5. 1N(B2) or RD5. 1ES(B2)
D4 :HZS3. 3N(B2) or RD3. 3ES(B2)
D7, 111, 112 :MA110
D8 :HSS104or1SS133
D11 :HZS8. 2N(B2) or RD8. 2ES(B2)


I
J
K
L
M
N
O
P
Q
R
X29-2482-70 (T, E, G TYPE) TUNER
FM TUNE
FM FRONT END
(W02-1166-15)
RF AMP
FET
MIX
TR1
IFT
DISTORTION(ST)
OSC
TR2
TR3
BUFFER
FM IF AMP
Q1
CF1
CF2
IC1
FM/AM SYSTEM IC
V-REG
AM RF
AM MIX
AM OSC
ALC
AGC
COMP
AM IF
AM DET
IF-BUFF
FM LEVEL DET
FM-DET
FM-IF
PILOT DET
TRIG
LED DRIV
P. D
VCO
F. F 38kHz
F. F 19kHz ∠90°
F. F 19kHz ∠0°
MUTE
(6dB)
DECODER
ST-SW
IC2
PLL IC
SWALLOW COUNTOR 1/16, 1/17, 4BIT
12BIT PROGRAMABLE DIVIDER
PHASE DETECTOR CHARGE PUMP
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
REFERENCE DRIVER
L. P. F
LW
MW
L103
L106
FM
Q102
Q103
Q109
Q110
Q111
MUTE CONT.
J1
J2
FM 75Ω
GND
AM ANT
VT 2
CH SPACE
DO
CE
CLK
DATA
T. MUTE
-12V
+12V
Lch
GND
Rch
STEREO
SD
DECODER
STEREO SW
MUTE
STEREO DRIVE
TRIG
FF
VCO
AM/FM SW
PILOTO DET
PHASE DET
VCC
IC12 (1/2)
IC12 (2/2)
FM, AM AMP
Q107
Q108
Q109, 110
MUTE
Q111
MUTE CONT
CH SPACE EAPHASYS
S101
50μS 50KHz(FM) 9KHz(AM)
75μS 100KHz(FM) 10KHz(AM)
D7
D8
Q7
WH1
SIGNAL LINE
GND LINE
+B LINE
-B LINE

IC1	:LA1851N
IC2	:LC7218
Q1	:2SC2714
Q2	:2SC1845
Q3. 4. 7. 113 114. 116	:2SC2412K
Q5. 102. 103. 111	:2SA1037K
Q109. 110	:2SD1757K
D3	:HZS5. 1N
D4	:HZS3. 3N
D5. 111. 112	:1SS133

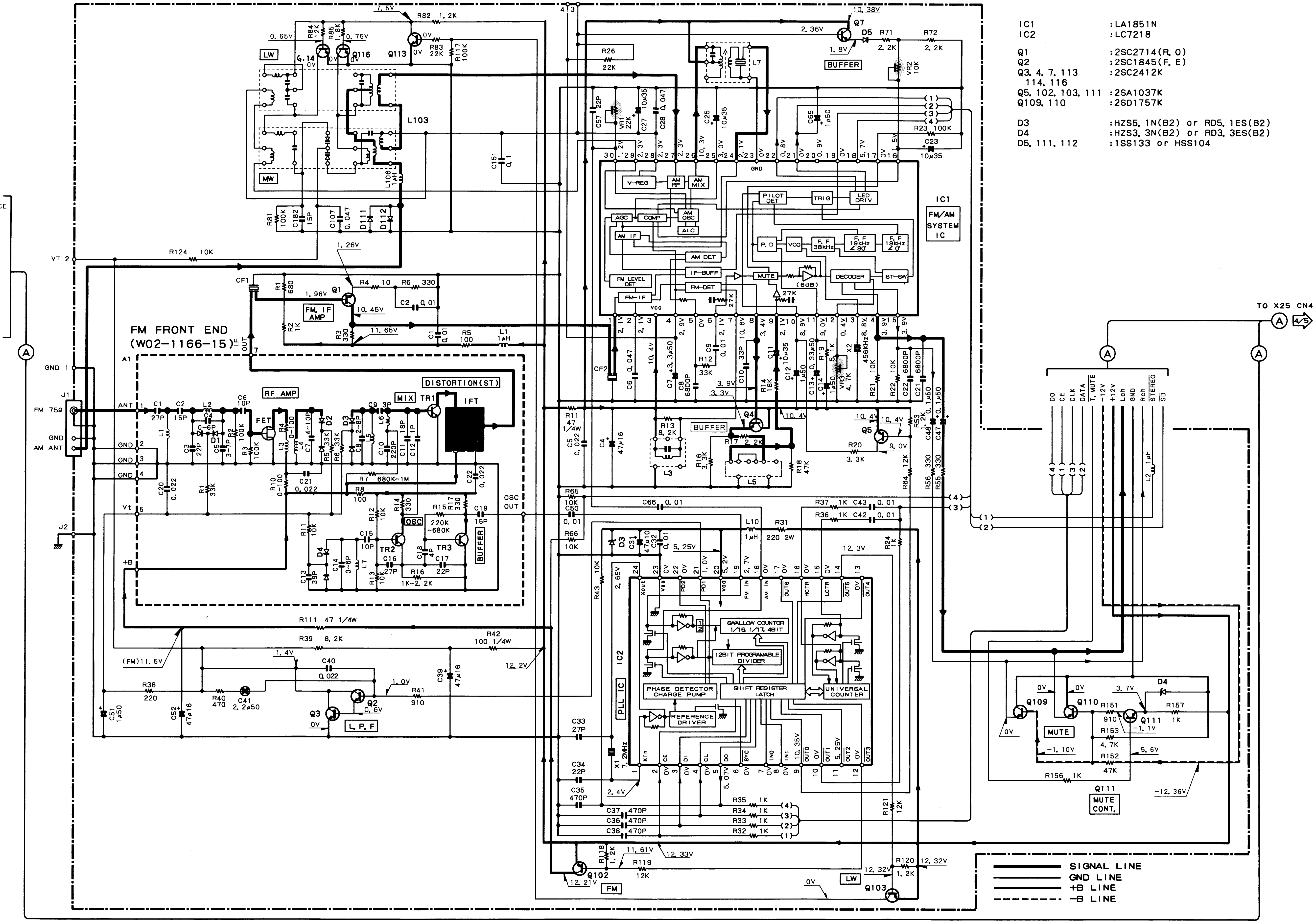
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety nents only with manufacturer's recommende parts list). ⚠ Indicates safety critical component risk of electric shock, leakage-current or resistanc shall be carried out (exposed parts are acceptabl the supply circuit) before the appliance is returne er.

X29-2482-70 (T. E. G TYPE) TUNER


FM TUNE
FM FRONT END
(W02-1166-15)
RF AMP
FET
MIX
TR1
IFT
DISTORTION(ST)
OSC
TR2
TR3
BUFFER
FM IF AMP
Q1
CF1
CF2
IC1
FM/AM SYSTEM IC
V-REG
AM RF
AM MIX
AM OSC
AGC
COMP
ALC
AM IF
AM DET
PILOT DET
TRIG
LED DRIV
P. D
VCO
F. F 38kHz
F. F 19kHz ∠90°
F. F 19kHz ∠0°
FM LEVEL DET
IF-BUFF
FM-DET
FM-IF
MUTE
(6dB)
DECODER
ST-SW
IC2
PLL IC
SWALLOW COUNTOR 1/16 1/17 4BIT
12BIT PROGRAMABLE DIVIDER
PHASE DETECTOR CHARGE PUMP
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
REFERENCE DRIVER
L. P. F
Q2
Q3
Q4
Q5
Q7
BUFFER
L103
LW
MW
Q113
Q116
Q109
Q110
Q111
MUTE
MUTE CONT.
Q102
Q103
FM
LW
TO X25 CN4
A
4/5
FM 75Ω
GND
AM ANT
J1
J2
VT 2
GND 1
+B
DO
CE
CLK
DATA
T. MUTE
−12V
+12V
Lch
GND
Rch
STEREO
SD
SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC1	:LA1851N
IC2	:LC7218
Q1	:2SC2714(R, O)
Q2	:2SC1845(F, E)
Q3, 4, 7, 113 114, 116	:2SC2412K
Q5, 102, 103, 111	:2SA1037K
Q109, 110	:2SD1757K
D3	:HZS5, 1N(B2) or RD5, 1ES(B2)
D4	:HZS3, 3N(B2) or RD3, 3ES(B2)
D5, 111, 112	:1SS133 or HSS104

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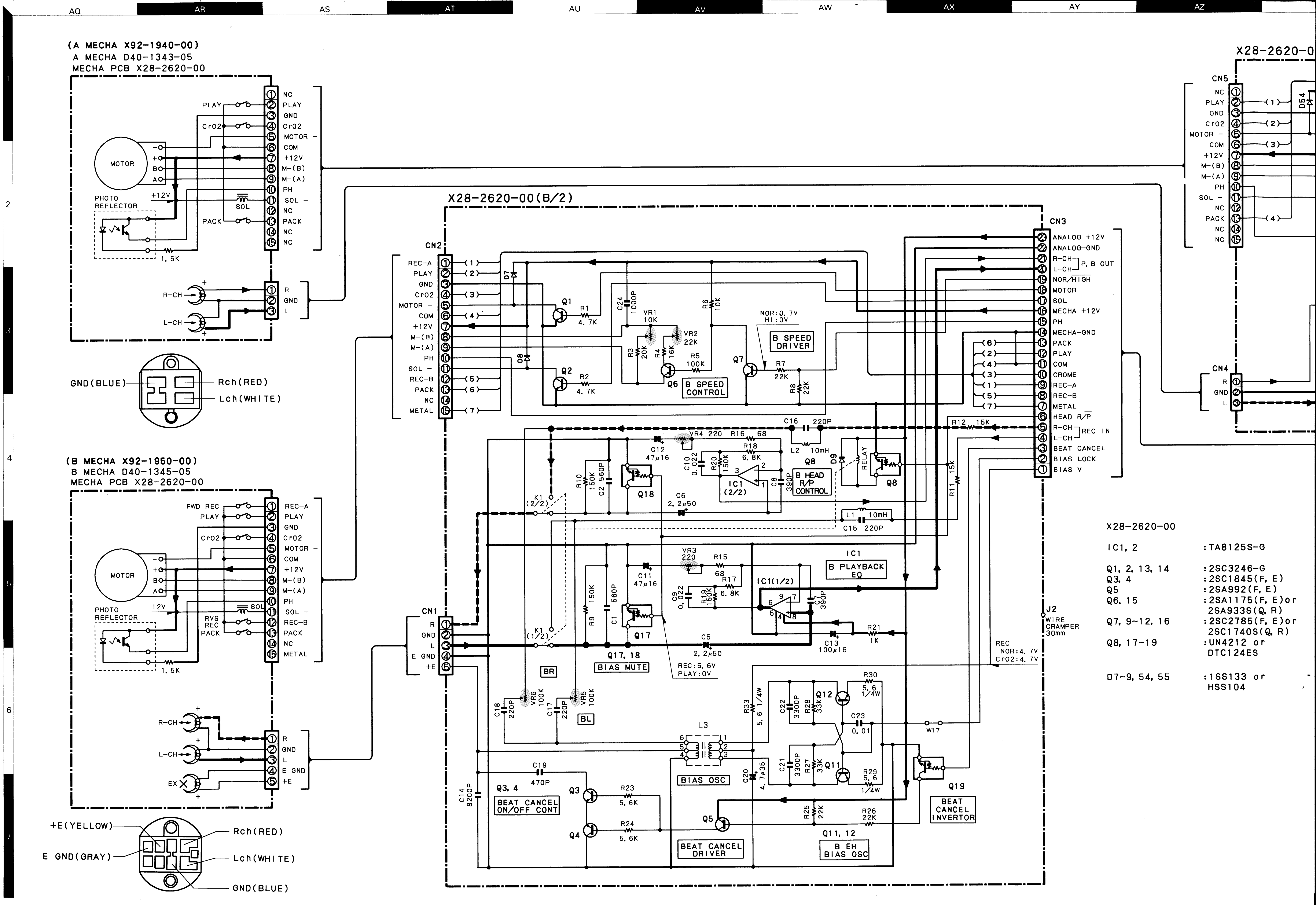
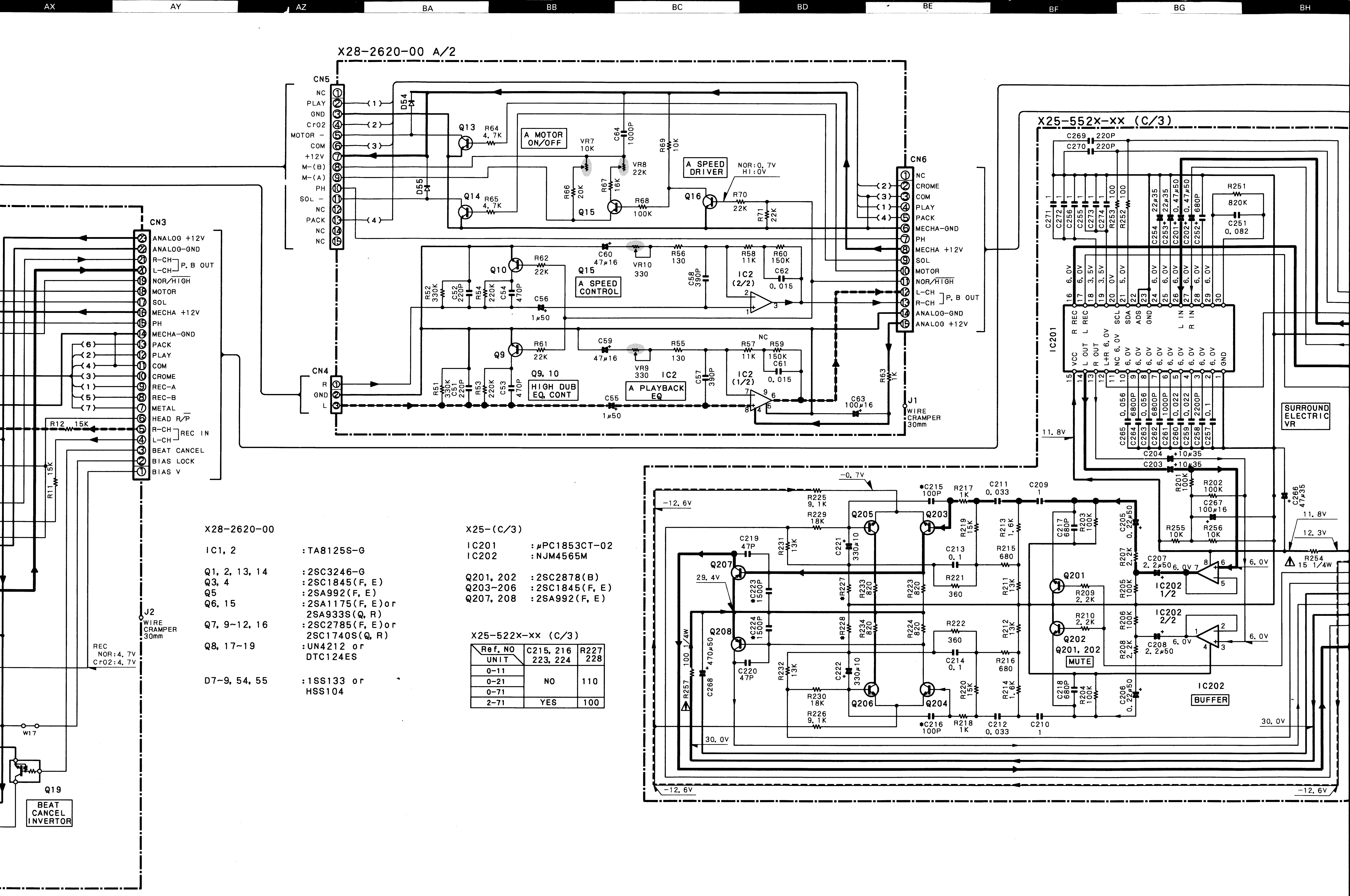
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.


AQ
AR
AS
AT
AU
AV
AW
AX
AY
AZ
1
2
3
4
5
6
7
(A MECHA X92-1940-00)
A MECHA D40-1343-05
MECHA PCB X28-2620-00
MOTOR
PHOTO REFLECTOR
PLAY
Cr02
PACK
SOL
+12V
1.5K
NC
PLAY
GND
Cr02
MOTOR –
COM
+12V
M-(B)
M-(A)
PH
SOL –
NC
PACK
NC
NC
R-CH
L-CH
R
GND
L
GND(BLUE)
Rch(RED)
Lch(WHITE)
(B MECHA X92-1950-00)
B MECHA D40-1345-05
MECHA PCB X28-2620-00
FWD REC
RVS REC
REC-A
REC-B
METAL
EX
E GND
+E
+E(YELLOW)
E GND(GRAY)
X28-2620-00(B/2)
CN1
CN2
CN3
CN4
CN5
X28-2620-0
ANALOG +12V
ANALOG-GND
R-CH
L-CH
P.B OUT
NOR/HIGH
MOTOR
SOL
MECHA +12V
PH
MECHA-GND
PACK
PLAY
COM
CROME
REC-A
REC-B
METAL
HEAD R/P
REC IN
BEAT CANCEL
BIAS LOCK
BIAS V
B SPEED DRIVER
B SPEED CONTROL
NOR:0.7V
HI:0V
B HEAD R/P CONTROL
RELAY
B PLAYBACK EQ
BIAS MUTE
Q17, 18
REC:5.6V
PLAY:0V
BIAS OSC
BEAT CANCEL ON/OFF CONT
Q3, 4
BEAT CANCEL DRIVER
B EH BIAS OSC
Q11, 12
BEAT CANCEL INVERTOR
REC
NOR:4.7V
Cr02:4.7V
J2
WIRE CRAMPER 30mm
W17
BR
BL
K1 (1/2)
K1 (2/2)
L3
IC1 (1/2)
IC1 (2/2)
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q11 Q12 Q17 Q18 Q19
D7 D8 D9 D54
R1 4.7K
R2 4.7K
R3 20K
R4 16K
R5 100K
R6 10K
R7 22K
R8 22K
R9 150K
R10 150K
R11 15K
R12 15K
R15 68
R16 68
R17 6.8K
R18 6.8K
R19 150K
R20 150K
R21 1K
R23 5.6K
R24 5.6K
R25 22K
R26 22K
R27 33K
R28 33K
R29 5.6 1/4W
R30 5.6 1/4W
R33 5.6 1/4W
VR1 10K
VR2 22K
VR3 220
VR4 220
VR5 100K
VR6 100K
C1 560P
C2 560P
C5 2.2μ50
C6 2.2μ50
C7 390P
C8 390P
C9 0.022
C10 0.022
C11 47μ16
C12 47μ16
C13 100μ16
C14 8200P
C15 220P
C16 220P
C17 220P
C18 220P
C19 470P
C20 4.7μ35
C21 3300P
C22 3300P
C23 0.01
C24 1000P
L1 10mH
L2 10mH

X28-2620-00

IC1, 2	:TA8125S-G
Q1, 2, 13, 14	:2SC3246-G
Q3, 4	:2SC1845(F, E)
Q5	:2SA992(F, E)
Q6, 15	:2SA1175(F, E)or 2SA933S(Q, R)
Q7, 9~12, 16	:2SC2785(F, E)or 2SC1740S(Q, R)
Q8, 17~19	:UN4212 or DTC124ES
D7~9, 54, 55	:1SS133 or HSS104


AX
AY
AZ
BA
BB
BC
BD
BE
BF
BG
BH
X28-2620-00 A/2
CN5
NC
PLAY
GND
CrO2
MOTOR -
COM
+12V
M-(B)
M-(A)
PH
SOL -
NC
PACK
NC
NC
D54
D55
Q13
Q14
R64 4.7K
R65 4.7K
A MOTOR ON/OFF
VR7 10K
C64 1000P
VR8 22K
R66 20K
R67 16K
Q15
R68 100K
R69 10K
A SPEED DRIVER
NOR:0.7V
HI:0V
Q16
R70 22K
R71 22K
CN6
NC
CROME
COM
PLAY
PACK
MECHA-GND
PH
MECHA +12V
SOL
MOTOR
NOR/HIGH
L-CH
R-CH
P.B OUT
ANALOG-GND
ANALOG +12V
CN3
ANALOG +12V
ANALOG-GND
R-CH
L-CH
P.B OUT
NOR/HIGH
MOTOR
SOL
MECHA +12V
PH
MECHA-GND
PACK
PLAY
COM
CROME
REC-A
REC-B
METAL
HEAD R/P
R-CH
L-CH
REC IN
BEAT CANCEL
BIAS LOCK
BIAS V
R12 15K
R11 15K
Q10
R62 22K
C60 47µ16
VR10 330
R56 130
R58 11K
R60 150K
C62 0.015
C58 390P
IC2 (2/2)
Q15
A SPEED CONTROL
R52 330K
C52 220P
R54 220K
C54 470P
C56 1µ50
CN4
R
GND
L
Q9
R61 22K
C59 47µ16
VR9 330
R55 130
R57 11K
NC
R59 150K
C61 0.015
C57 390P
IC2 (1/2)
IC2
Q9, 10
HIGH DUB EQ. CONT
A PLAYBACK EQ
R51 330K
C51 220P
R53 220K
C53 470P
C55 1µ50
C63 100µ16
R63 1K
J1
WIRE CRAMPER 30mm
J2
WIRE CRAMPER 30mm
REC
NOR:4.7V
CrO2:4.7V
W17
Q19
BEAT CANCEL INVERTOR
X25-552x-xx (C/3)
C269 220P
C270 220P
C271 1
C272 1
C256 1
C255 1
C273 1
C274 1
R253 100
R252 100
C254 22µ35
C253 22µ35
C201 0.47µ50
C202 0.47µ50
C252 680P
R251 820K
C251 0.082
IC201
R REC
L REC
SCL
SDA
ADS
GND
L IN
R IN
VCC
L OUT
R OUT
L+R
NC
GND
C265 0.056
C264 6800P
C263 0.056
C262 6800P
C261 1000P
C260 0.022
C259 0.022
C258 2200P
C257 0.1
SURROUND ELECTRIC VR
11.8V
C204 10µ35
C203 10µ35
C266 47µ35
-0.7V
-12.6V
R225 9.1K
R229 18K
C215 100P
R217 1K
C211 0.033
C209 1
Q205
Q203
R231 13K
C219 47P
C221 330µ10
R219 15K
R213 1.6K
C217 680P
R203 100K
C205 0.22µ50
R201 100K
R202 100K
C267 100µ16
R255 10K
R256 10K
11.8V
12.3V
R254 15 1/4W
Q207
29.4V
C223 1500P
R227
R233 820
R223 820
C213 0.1
R215 680
R221 360
R211 13K
Q201
R209 2.2K
R207 2.2K
C207 2.2µ50
6.0V
IC202 1/2
R205 100K
Q208
C224 1500P
R228
R234 820
R224 820
R222 360
R212 13K
R210 2.2K
Q202
Q201, 202
MUTE
R206 100K
IC202 2/2
C208 2.2µ50
R208 2.2K
R257 100 1/4W
C268 470µ50
C220 47P
R232 13K
C222 330µ10
C214 0.1
R216 680
R230 18K
Q206
Q204
R220 15K
R214 1.6K
C218 680P
R204 100K
C206 0.22µ50
IC202
BUFFER
R226 9.1K
C216 100P
R218 1K
C212 0.033
C210 1
30.0V
30.0V
-12.6V
-12.6V

X28-2620-00

IC1, 2 :TA8125S-G

Q1, 2, 13, 14 :2SC3246-G
Q3, 4 :2SC1845(F, E)
Q5 :2SA992(F, E)
Q6, 15 :2SA1175(F, E)or 2SA933S(Q, R)
Q7, 9~12, 16 :2SC2785(F, E)or 2SC1740S(Q, R)
Q8, 17~19 :UN4212 or DTC124ES

D7~9, 54, 55 :1SS133 or HSS104

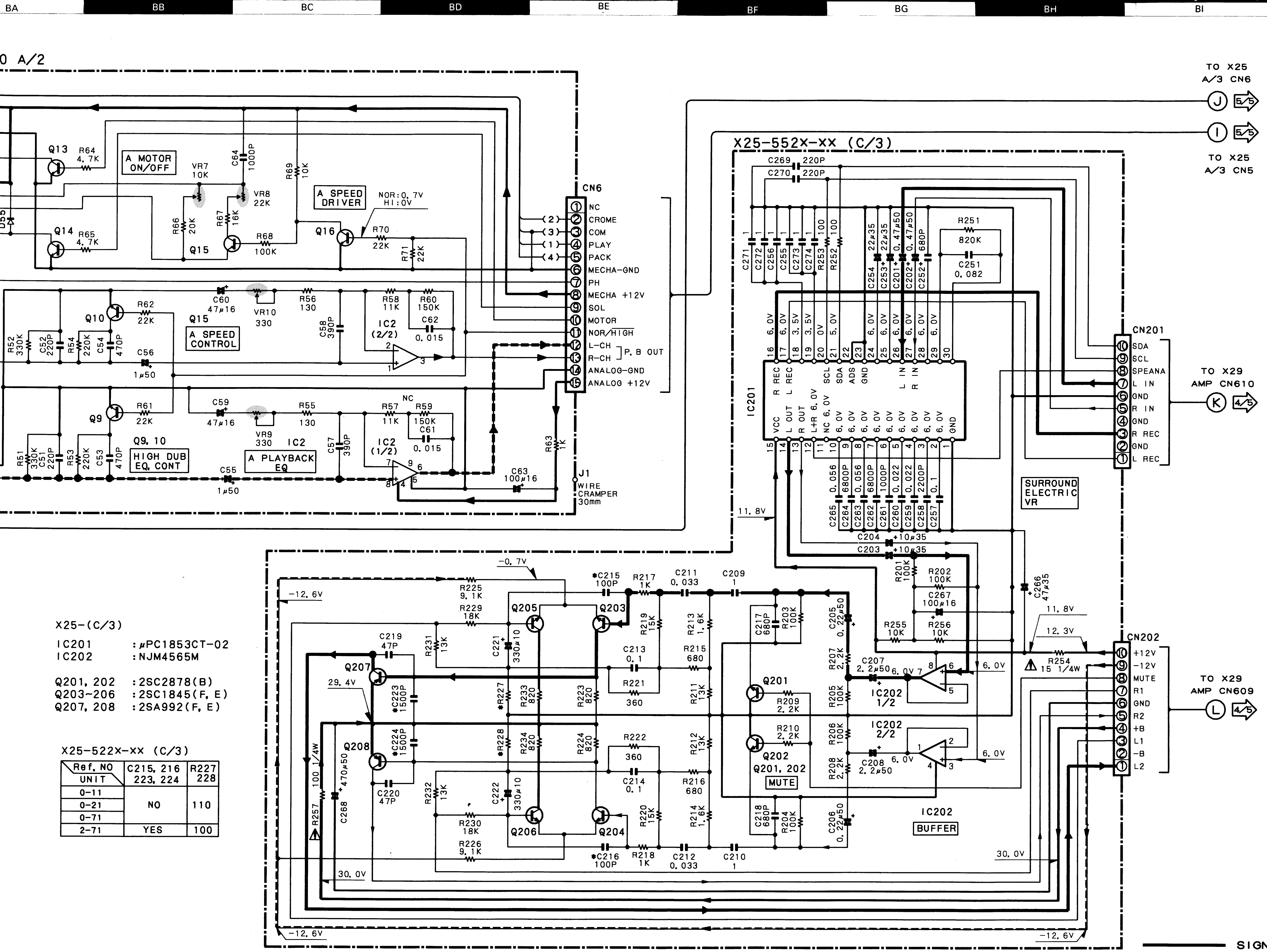
X25-(C/3)

IC201 :µPC1853CT-02
IC202 :NJM4565M

Q201, 202 :2SC2878(B)
Q203~206 :2SC1845(F, E)
Q207, 208 :2SA992(F, E)

X25-522X-XX (C/3)

Ref. NO / UNIT	C215, 216 223, 224	R227 228
0-11	NO	110
0-21		
0-71		
2-71	YES	100


BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
0 A/2
X25-552X-XX (C/3)
TO X25 A/3 CN6
TO X25 A/3 CN5
TO X29 AMP CN610
TO X29 AMP CN609
CN6
NC
CROME
COM
PLAY
PACK
MECHA-GND
PH
MECHA +12V
SOL
MOTOR
NOR/HIGH
L-CH
R-CH
P. B OUT
ANALOG-GND
ANALOG +12V
J1
WIRE CRAMPER 30mm
A MOTOR ON/OFF
A SPEED DRIVER
NOR:0.7V
HI:0V
A SPEED CONTROL
HIGH DUB EQ. CONT
A PLAYBACK EQ
Q9, 10
Q13
Q14
Q15
Q16
Q10
Q9
IC2 (2/2)
IC2 (1/2)
VR7 10K
VR8 22K
VR9 330
VR10 330
CN201
SDA
SCL
SPEANA
L IN
GND
R IN
GND
R REC
GND
L REC
CN202
+12V
-12V
MUTE
R1
GND
R2
+B
L1
-B
L2
IC201
SURROUND ELECTRIC VR
IC202 1/2
IC202 2/2
IC202
BUFFER
Q201, 202
MUTE
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
11.8V
12.3V
-0.7V
-12.6V
29.4V
30.0V
6.0V
R254 15 1/4W
R257 100 1/4W
C268 470μ50

X25-(C/3)

IC201 : μPC1853CT-02
IC202 : NJM4565M

Q201, 202 : 2SC2878(B)
Q203-206 : 2SC1845(F, E)
Q207, 208 : 2SA992(F, E)

X25-522X-XX (C/3)

Ref. NO UNIT	C215, 216 223, 224	R227 228
0-11	NO	110
0-21		
0-71		
2-71	YES	100

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

━━━━ SIGNAL LINE
──── GND LINE
──── +B LINE
- - - - -B LINE

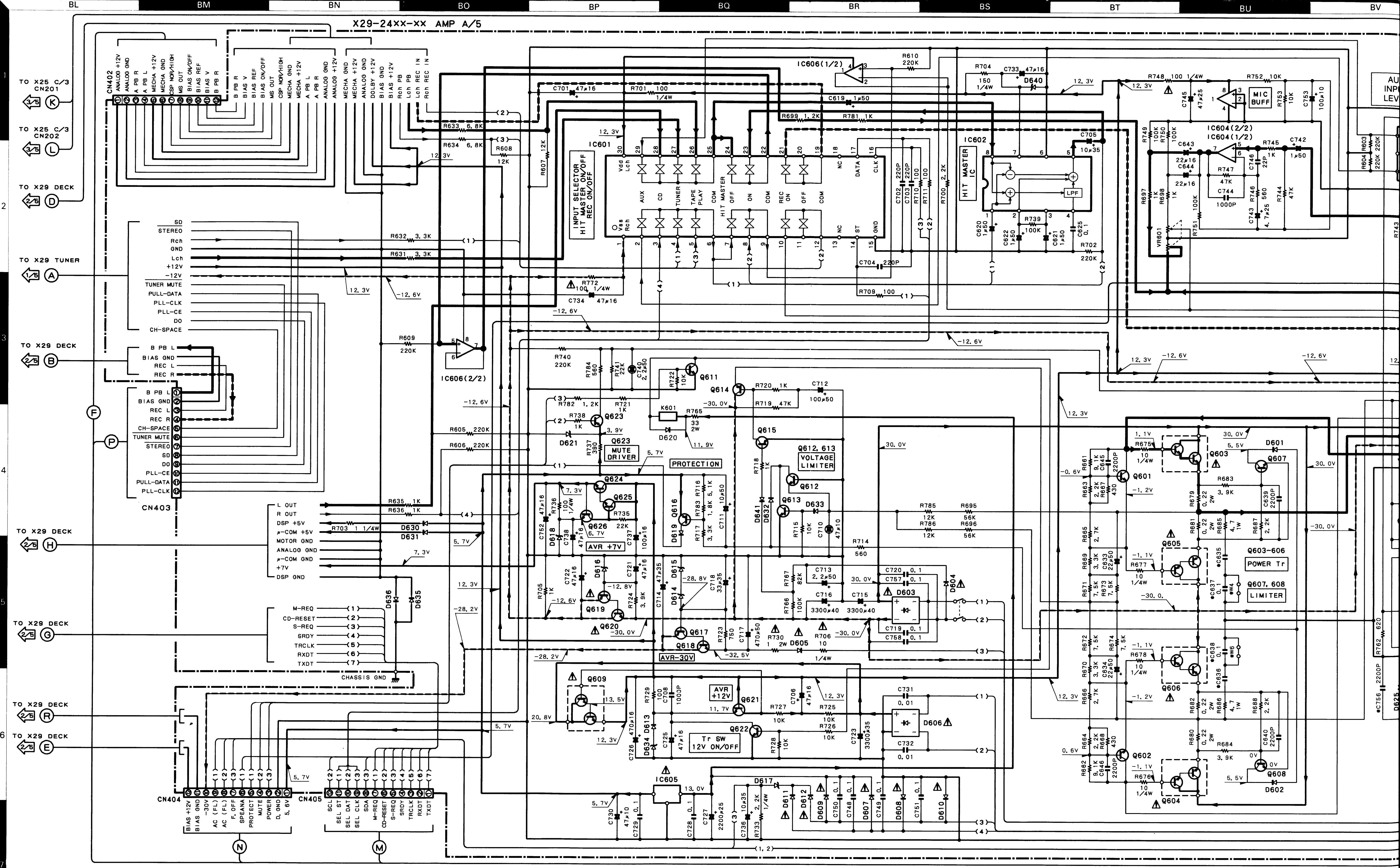
3/5

RXD-C3/C3L

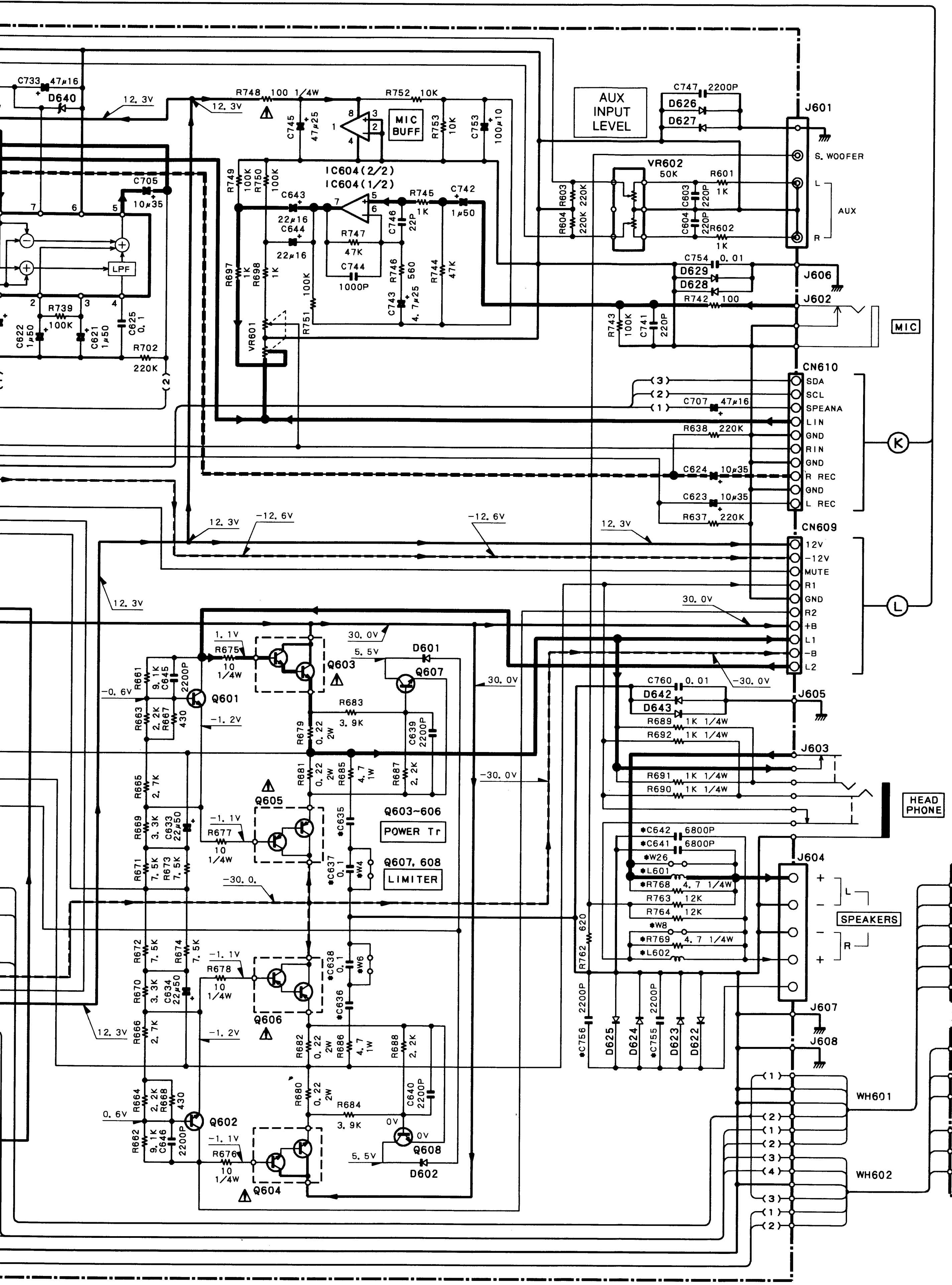
KENWOOD

Y39-2030-11

X29-24xx-xx AMP A/5



BL
BM
BN
BO
BP
BQ
BR
BS
BT
BU
BV
TO X25 C/3 CN201 3/5 K
TO X25 C/3 CN202 3/5 L
TO X29 DECK D
TO X29 TUNER 1/5 A
TO X29 DECK 2/5 B
TO X29 DECK 2/5 H
TO X29 DECK 2/5 G
TO X29 DECK 2/5 R
TO X29 DECK 2/5 E
CN402
CN403
CN404
CN405
IC601
INPUT SELECTOR HIT MASTER ON/OFF REC ON/OFF
IC602
HIT MASTER IC
LPF
IC606(1/2)
IC606(2/2)
IC604(1/2)
IC604(2/2)
MIC BUFF
IC605
Q623 MUTE DRIVER
PROTECTION
Q612, 613 VOLTAGE LIMITER
AVR +7V
AVR-30V
AVR +12V
Tr SW 12V ON/OFF
Q603-606 POWER Tr
Q607, 608 LIMITER
D603
D606
K601
VR601
CHASSIS GND
12.3V
-12.6V
30.0V
-30.0V
-28.2V
5.7V


C733 47μ16
D640
12.3V
R748 100 1/4W
R752 10K
IC604(2/2)
IC604(1/2)
MIC BUFF
AUX INPUT LEVEL
C747 2200P
D626
D627
J601
S.WOOFER
L
AUX
R
VR602 50K
R601 1K
R602 1K
R603 220K
R604 220K
C603 220P
C604 220P
C705 10μ35
C745 47μ25
R753 10K
C753 100μ10
R749 100K
R750 100K
C643 22μ16
C644 22μ16
R745 1K
C742 1μ50
C746 22P
R747 47K
C744 1000P
R746 560
C743 4.7μ25
R744 47K
R697 1K
R698 1K
R751 100K
VR601
LPF
R739 100K
C622 1μ50
C621 1μ50
C625 0.1
R702 220K
C754 0.01
D629
D628
J606
R742 100
J602
MIC
R743 100K
C741 220P
CN610
SDA
SCL
SPEANA
LIN
GND
RIN
GND
R REC
GND
L REC
C707 47μ16
R638 220K
C624 10μ35
C623 10μ35
R637 220K
K
12.3V
-12.6V
CN609
12V
-12V
MUTE
R1
GND
R2
+B
L1
-B
L2
L
30.0V
-30.0V
1.1V
R675 10 1/4W
Q603
5.5V
D601
Q607
R661
C645 2200P
-0.6V
Q601
R663 2.2K
R667 430
-1.2V
R683 3.9K
C639 2200P
R679 0.22 2W
R681 0.22 2W
R685 4.7 1W
R687 2.2K
C760 0.01
D642
D643
J605
R689 1K 1/4W
R692 1K 1/4W
J603
R691 1K 1/4W
R690 1K 1/4W
HEAD PHONE
R665 2.7K
Q605
R669 3.3K
C633 22μ50
R677 10 1/4W
C635
Q603-606 POWER Tr
Q607, 608 LIMITER
R671 7.5K
R673 7.5K
C637 0.1
W4
-30.0
C642 6800P
C641 6800P
W26
L601
R768 4.7 1/4W
R763 12K
R764 12K
W8
R769 4.7 1/4W
L602
J604
SPEAKERS
R762 620
R672 7.5K
R674 7.5K
R678 10 1/4W
C638 0.1
W6
C636
Q606
R670 3.3K
C634 22μ50
R666 2.7K
R682 0.22 2W
R686 4.7 1W
R688 2.2K
C756 2200P
D625
D624
C755 2200P
D623
D622
J607
J608
R664 2.2K
R668 430
0.6V
Q602
R680 0.22 2W
R684 3.9K
C640 2200P
0V
Q608
R662 9.1K
C646 2200P
R676 10 1/4W
5.5V
D602
Q604
WH601
WH602

X29-24xx-xx

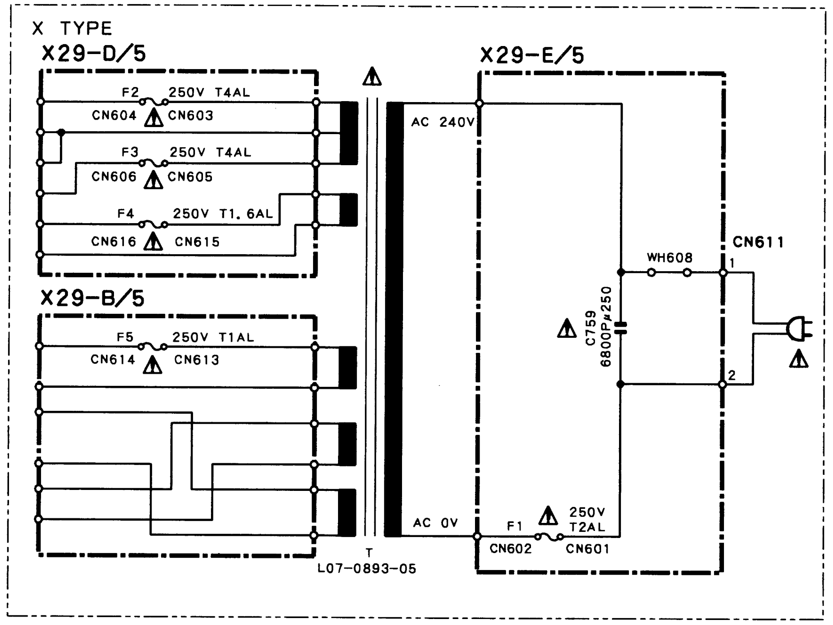
IC601 :NJU7313AM
IC602 :CXA1642M
IC604 :NJM4565M
IC605 :TA78057S

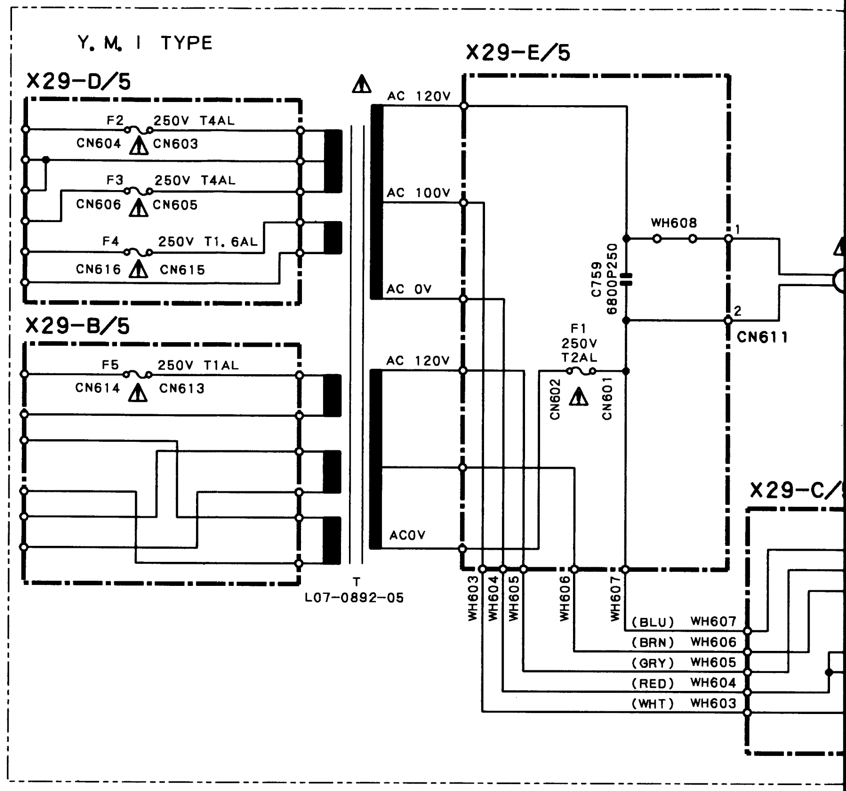
Q601, 602 :2SC4137(V, W)
Q603, 604 :2SD2493
Q605, 606 :2SB1624
Q607, 608 :2SC1845(F, E)
Q609 :2SD1893
Q612, 613, 621
622, 625, 626 :2SC2412K
Q611 :2SC3246(H, J)
Q614 :2SA954(L, K)
Q615~617 :2SA1037K
Q618, 620, 624 :2SD2012
Q619, 623 :2SA933S(Q, R)

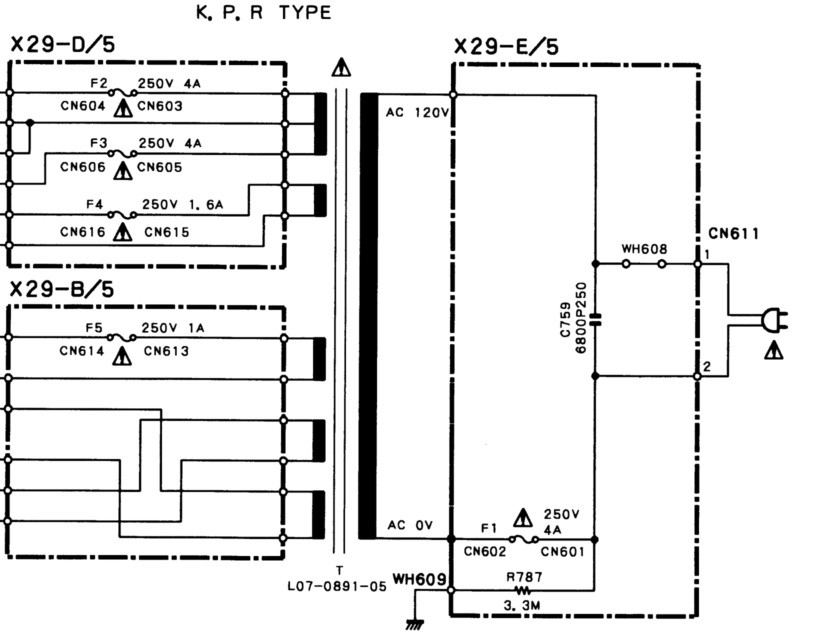
D601, 602, 611, 612
619, 620, 631, 641 :1SS133 or HSS104
D603 :D3SBA20F03 or RBV-402LFA
D604 :1SS131 or HSS104A
D605, 607~610
630, 631 :S5688B or 1SR139-100
D606 :KBP02ML-6127
D613, 618 :HZS6.8N(B2) or RD6.8ES(B2)
D614 :HZS16N(B2) or RD16ES(B2)
D615, 616 :HZS13N(B2) or RD13ES(B2)
D617 :HZS2.7N(B2) or RD2.7ES(B2)
D621 :HZS3.9N(B2) or RD3.9ES(B2)
D622~629, 632
633, 635, 636 :MA110
D634 :HZS5.1N(B2) or RD5.1ES(B2)
D640 :HZS10N(B2)

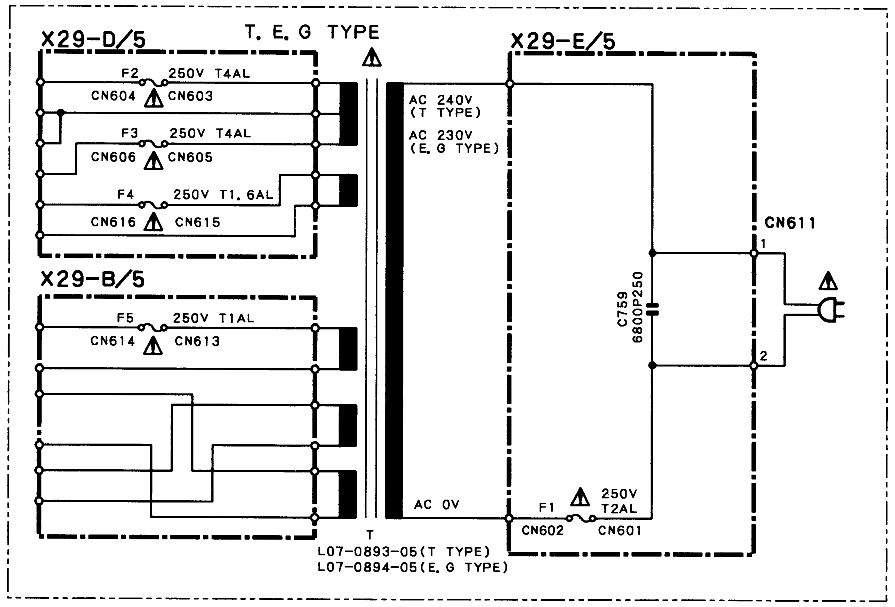
X29-24xx-xx

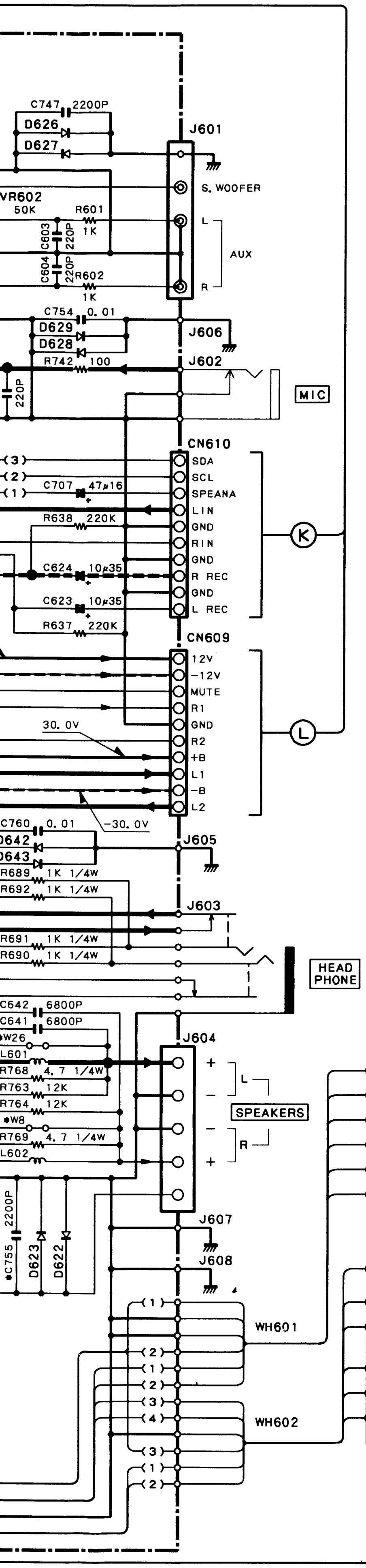
UNIT	Ref. NO / ABB	C635, 636	C6 C64 C75
90-11	K, R, P	0.047μ	
90-21	Y, M, I		
90-71	X		
82-70	T, E, G	0.1μ	Y


X TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1.6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 240V
AC 0V
C759 6800P250
WH608
CN611
1
2
F1 250V T2AL
CN602 CN601
T
L07-0893-05


Y, M, I TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1.6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 120V
AC 100V
AC 0V
AC 120V
AC0V
C759 6800P250
WH608
CN611
1
2
F1 250V T2AL
CN602 CN601
T
L07-0892-05
X29-C/
WH603
WH604
WH605
WH606
WH607
(BLU) WH607
(BRN) WH606
(GRY) WH605
(RED) WH604
(WHT) WH603


K, P, R TYPE
X29-D/5
X29-E/5
F2 250V 4A
CN604 CN603
F3 250V 4A
CN606 CN605
F4 250V 1.6A
CN616 CN615
X29-B/5
F5 250V 1A
CN614 CN613
AC 120V
AC 0V
C759 6800P250
WH608
CN611
1
2
F1 250V 4A
CN602 CN601
R787 3.3M
WH609
T
L07-0891-05


T, E, G TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1.6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 240V (T TYPE)
AC 230V (E, G TYPE)
AC 0V
C759 6800P250
CN611
1
2
F1 250V T2AL
CN602 CN601
T
L07-0893-05(T TYPE)
L07-0894-05(E, G TYPE)


C747 2200P
D626
D627
J601
S. WOOFER
VR602 50K
R601 1K
C603 220P
C604 220P
R602 1K
AUX
L
R
C754 0.01
D629
D628
J606
R742 100
J602
220P
MIC
CN610
SDA
SCL
SPEANA
LIN
GND
RIN
GND
R REC
GND
L REC
C707 47μ16
R638 220K
C624 10μ35
C623 10μ35
R637 220K
K
CN609
12V
-12V
MUTE
R1
GND
R2
+B
L1
-B
L2
30. 0V
-30. 0V
L
C760 0. 01
D642
D643
J605
R689 1K 1/4W
R692 1K 1/4W
J603
R691 1K 1/4W
R690 1K 1/4W
HEAD PHONE
C642 6800P
C641 6800P
W26
L601
R768 4. 7 1/4W
R763 12K
R764 12K
W8
R769 4. 7 1/4W
L602
J604
SPEAKERS
J607
J608
2200P
C755
D623
D622
WH601
WH602

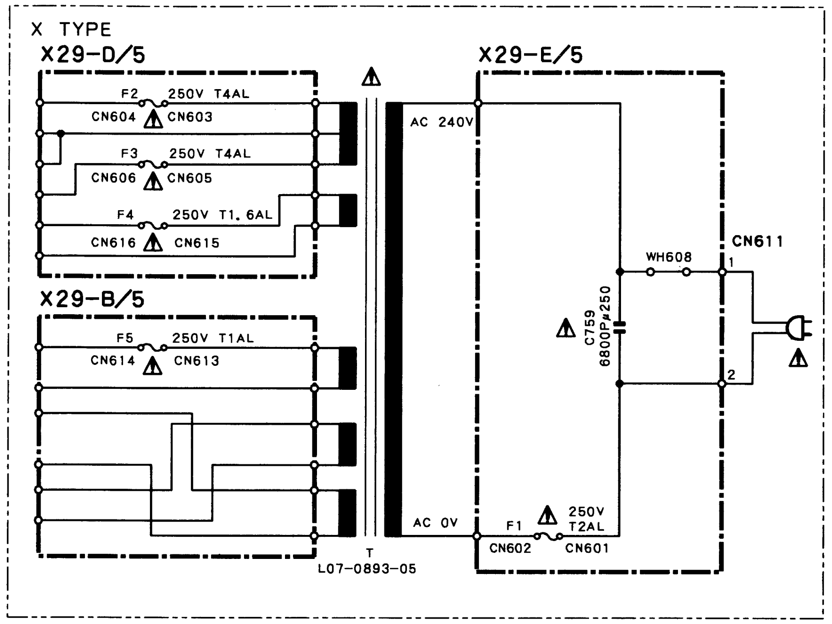
X29-24xx-xx

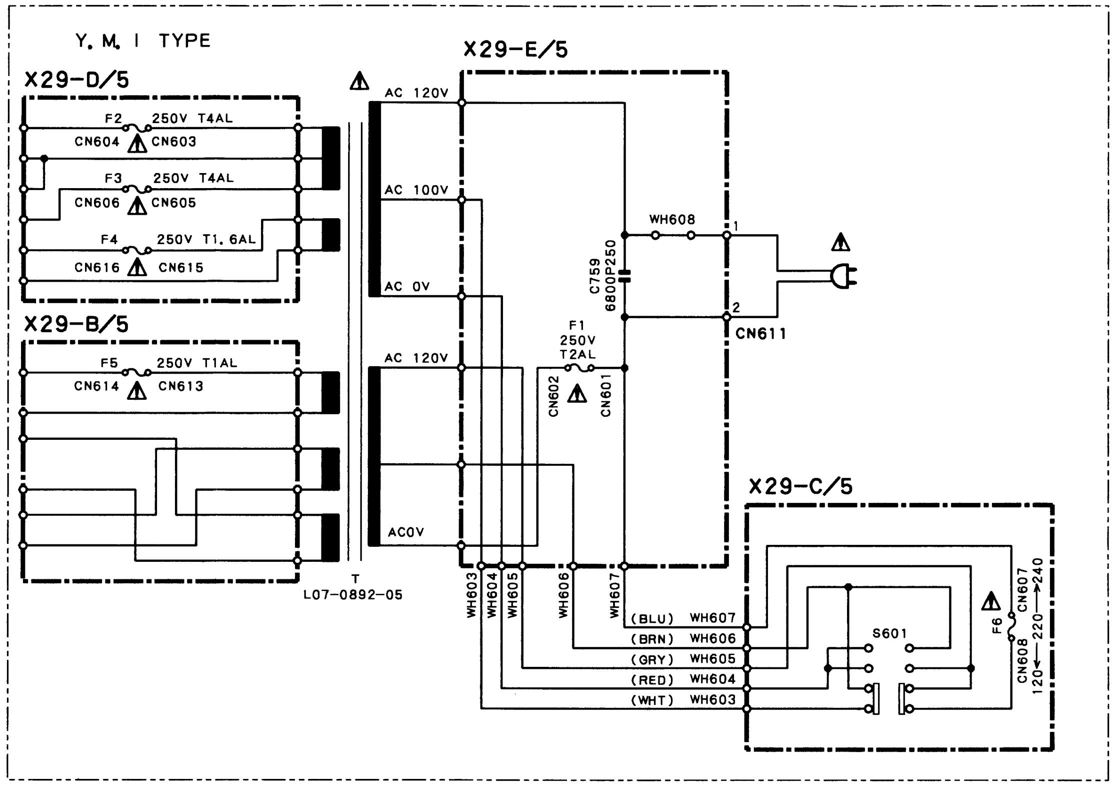
IC601	:NJU7313AM	Q601, 602	:2SC4137(V, W)
IC602	:CXA1642M	Q603, 604	:2SD2493
IC604	:NJM4565M	Q605, 606	:2SB1624
IC605	:TA78057S	Q607, 608	:2SC1845(F, E)
		Q609	:2SD1893
		Q612, 613, 621 622, 625, 626	:2SC2412K
		Q611	:2SC3246(H, J)
		Q614	:2SA954(L, K)
		Q615~617	:2SA1037K
		Q618, 620, 624	:2SD2012
		Q619, 623	:2SA933S(Q, R)

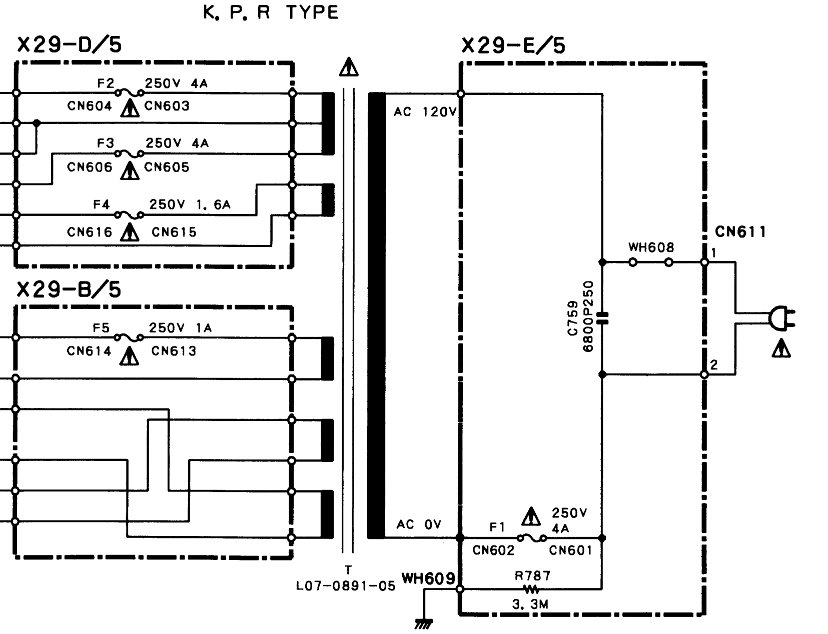
D601, 602, 611, 612 619, 620, 631, 641	:1SS133 or HSS104
D603	:D3SBA20F03 or RBV-402LFA
D604	:1SS131 or HSS104A
D605, 607~610 630, 631	:S5688B or 1SR139-100
D606	:KBP02ML-6127
D613, 618	:HZS6. 8N(B2) or RD6. 8ES(B2)
D614	:HZS16N(B2) or RD16ES(B2)
D615, 616	:HZS13N(B2) or RD13ES(B2)
D617	:HZS2. 7N(B2) or RD2. 7ES(B2)
D621	:HZS3. 9N(B2) or RD3. 9ES(B2)
D622~629, 632 633, 635, 636	:MA110
D634	:HZS5. 1N(B2) or RD5. 1ES(B2)
D640	:HZS10N(B2)

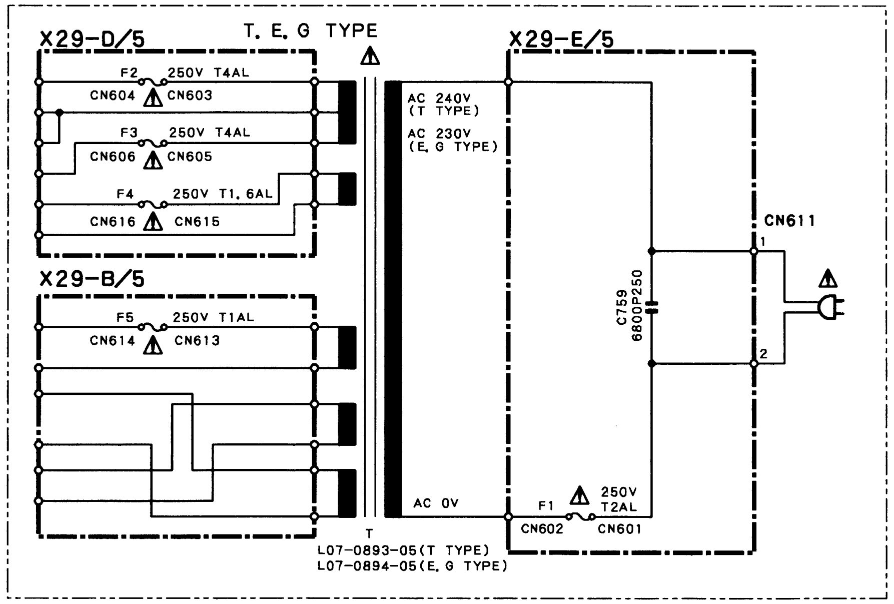
X29-24xx-xx

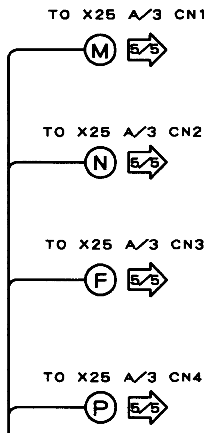
UNIT	Ref. NO ABB	C635, 636	C637, 638 C641, 642 C755, 756	R768, 769	L601, 602
90-11	K, R, P	0. 047μ	NO	NO	NO
90-21	Y, M, I				
90-71	X				
82-70	T, E, G	0. 1μ	YES	YES	YES


X TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1. 6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 240V
AC 0V
WH608
CN611
1
2
C759 6800P/250
F1 250V T2AL
CN602 CN601
T
L07-0893-05


Y, M, I TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1. 6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 120V
AC 100V
AC 0V
AC 120V
AC0V
T
L07-0892-05
WH608
1
2
CN611
C759 6800P250
F1 250V T2AL
CN602 CN601
X29-C/5
WH603
WH604
WH605
WH606
WH607
(BLU) WH607
(BRN) WH606
(GRY) WH605
(RED) WH604
(WHT) WH603
S601
F6
CN607
CN608
120
220
240


K, P, R TYPE
X29-D/5
X29-E/5
F2 250V 4A
CN604 CN603
F3 250V 4A
CN606 CN605
F4 250V 1. 6A
CN616 CN615
X29-B/5
F5 250V 1A
CN614 CN613
AC 120V
AC 0V
WH608
CN611
1
2
C759 6800P250
F1 250V 4A
CN602 CN601
T
L07-0891-05
WH609
R787 3. 3M


T, E, G TYPE
X29-D/5
X29-E/5
F2 250V T4AL
CN604 CN603
F3 250V T4AL
CN606 CN605
F4 250V T1. 6AL
CN616 CN615
X29-B/5
F5 250V T1AL
CN614 CN613
AC 240V (T TYPE)
AC 230V (E, G TYPE)
AC 0V
CN611
1
2
C759 6800P250
F1 250V T2AL
CN602 CN601
T
L07-0893-05(T TYPE)
L07-0894-05(E, G TYPE)

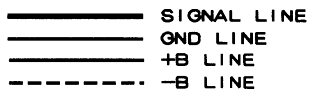

TO X25 A/3 CN1
M
E/5
TO X25 A/3 CN2
N
E/5
TO X25 A/3 CN3
F
E/5
TO X25 A/3 CN4
P
E/5

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

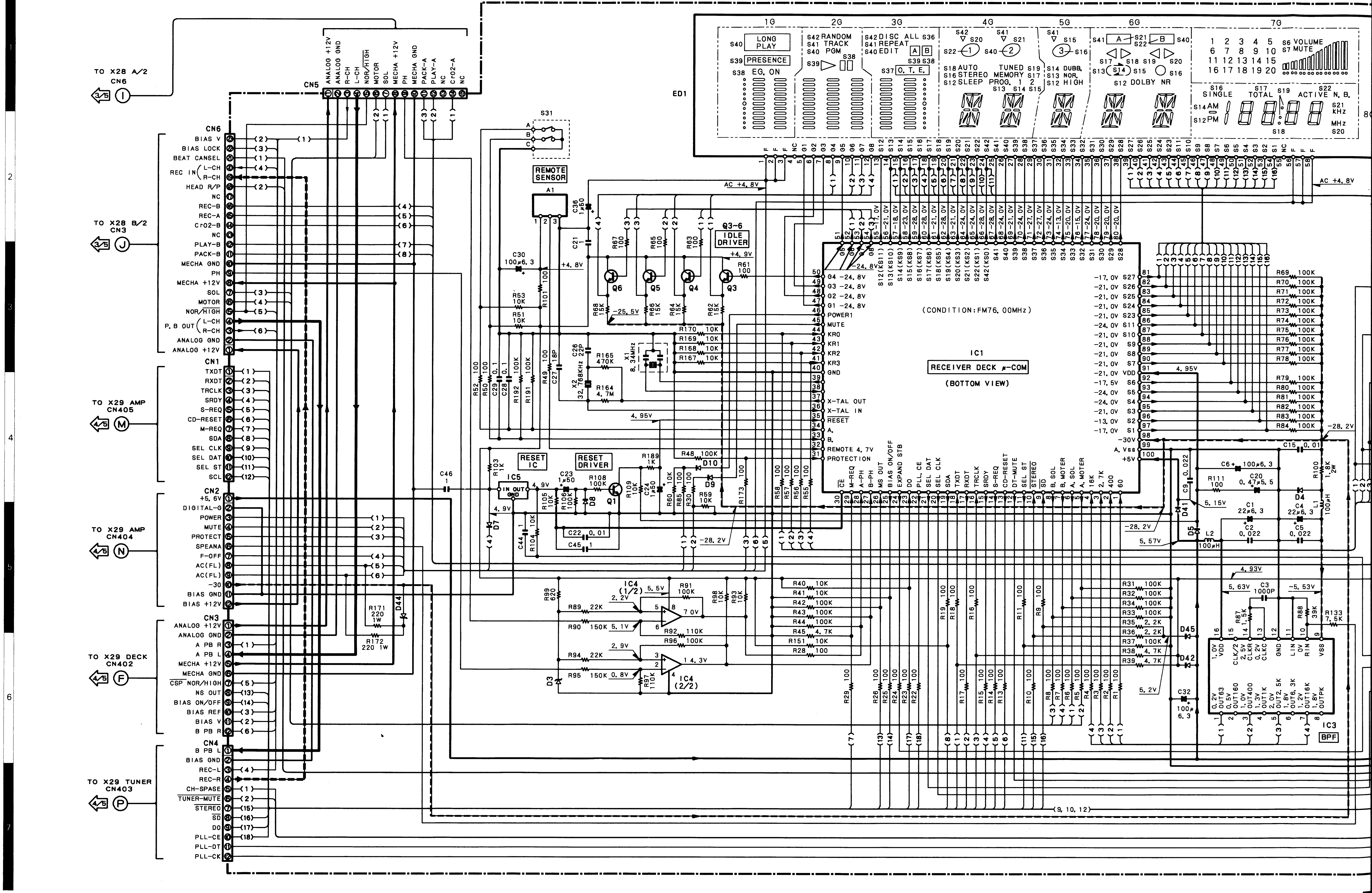
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

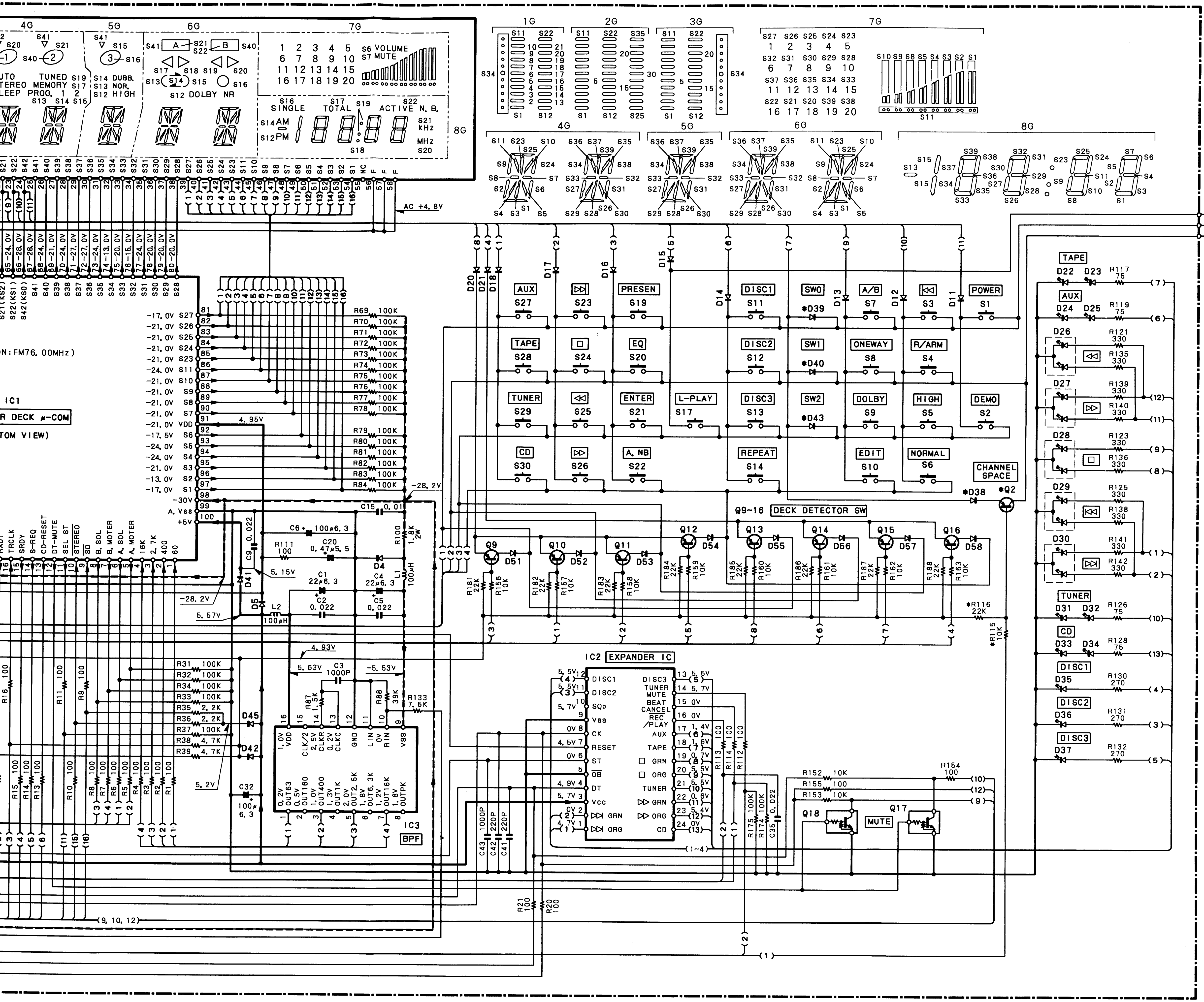

SIGNAL LINE
GND LINE
+B LINE
-B LINE

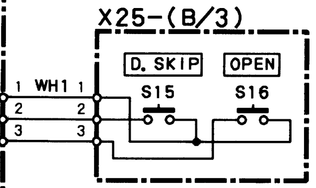
RXD-C3/C3L

KENWOOD

DISPLAY UNIT X25-552X-XX (A/3)


TO X28 A/2 CN6
3/5 I
TO X28 B/2 CN3
3/5 J
TO X29 AMP CN405
4/5 M
TO X29 AMP CN404
4/5 N
TO X29 DECK CN402
4/5 F
TO X29 TUNER CN403
4/5 P
CN5
ANALOG +12V
ANALOG GND
R-CH
L-CH
NOR/HIGH
MOTOR
SOL
MECHA +12V
PH
MECHA GND
PACK-A
PLAY-A
NC
CrO2-A
NC
CN6
BIAS V
BIAS LOCK
BEAT CANSEL
REC IN L-CH
R-CH
HEAD R/P
NC
REC-B
REC-A
CrO2-B
NC
PLAY-B
PACK-B
MECHA GND
PH
MECHA +12V
SOL
MOTOR
NOR/HIGH
P.B OUT L-CH
R-CH
ANALOG GND
ANALOG +12V
CN1
TXDT
RXDT
TRCLK
SRDY
S-REQ
CD-RESET
M-REQ
SDA
SEL CLK
SEL DAT
SEL ST
SCL
CN2
+5.6V
DIGITAL-G
POWER
MUTE
PROTECT
SPEANA
F-OFF
AC(FL)
AC(FL)
-30
BIAS GND
BIAS +12V
CN3
ANALOG +12V
ANALOG GND
A PB R
A PB L
MECHA +12V
MECHA GND
CSP NOR/HIGH
NS OUT
BIAS ON/OFF
BIAS REF
BIAS V
B PB R
CN4
B PB L
BIAS GND
REC-L
REC-R
CH-SPASE
TUNER-MUTE
STEREO
SD
DO
PLL-CE
PLL-DT
PLL-CK
S31
REMOTE SENSOR
A1
RESET IC
IC5
RESET DRIVER
Q1
Q3-6 IDLE DRIVER
Q3 Q4 Q5 Q6
X1 8.34MHz
X2 32.768KHz
ED1
1G 2G 3G 4G 5G 6G 7G
LONG PLAY
PRESENCE
EG. ON
RANDOM TRACK PGM
DISC ALL REPEAT EDIT
O.T.E.
AUTO STEREO SLEEP
TUNED MEMORY PROG. 1 2
DUBB. NOR. HIGH
DOLBY NR
VOLUME MUTE
SINGLE TOTAL ACTIVE N.B.
AM PM kHz MHz
AC +4.8V
IC1
RECEIVER DECK μ-COM
(BOTTOM VIEW)
(CONDITION:FM76.00MHz)
G4 -24.8V
G3 -24.8V
G2 -24.8V
G1 -24.8V
POWER1
MUTE
KR0
KR1
KR2
KR3
GND
X-TAL OUT
X-TAL IN
RESET
A.
B.
REMOTE 4.7V
PROTECTION
CE
M-REQ
A-PH
B-PH
MS OUT
BIAS ON/OFF
EXPAND STB
DO
PLL CE
SEL DAT
SEL CLK
SDA
TXDT
RXDT
TRCLK
SRDY
S-REQ
CD-RESET
DT-MUTE
SEL ST
STEREO
SD
B. SOL
B. MOTOR
A. SOL
A. MOTOR
VDD
A. Vss
+5V
-30V
IC4 (1/2)
IC4 (2/2)
IC3
BPF
CLK/2 CLKR CLKC GND LIN RIN VSS VDD
OUT63 OUT160 OUT400 OUT1K OUT2.5K OUT6.3K OUT16K OUTPK
-28.2V
4.95V
5.15V
5.57V
5.2V
4.93V
5.63V
-5.53V
(9,10,12)


4G
5G
6G
7G
VOLUME
MUTE
TUNED
MEMORY
STEREO
PROG.
DUBB.
NOR.
HIGH
DOLBY NR
SINGLE
TOTAL
ACTIVE N. B.
kHz
MHz
AM
PM
8G
1G
2G
3G
IC1
R DECK μ-COM
TOM VIEW)
N:FM76. 00MHz)
AC +4. 8V
AUX
PRESEN
POWER
DISC1
SW0
A/B
TAPE
EQ
DISC2
SW1
ONEWAY
R/ARM
TUNER
ENTER
L-PLAY
DISC3
SW2
DOLBY
HIGH
DEMO
CD
A. NB
REPEAT
EDIT
NORMAL
CHANNEL SPACE
Q9-16 DECK DETECTOR SW
IC2 EXPANDER IC
IC3 BPF
MUTE
TAPE
AUX
TUNER
CD
DISC1
DISC2
DISC3

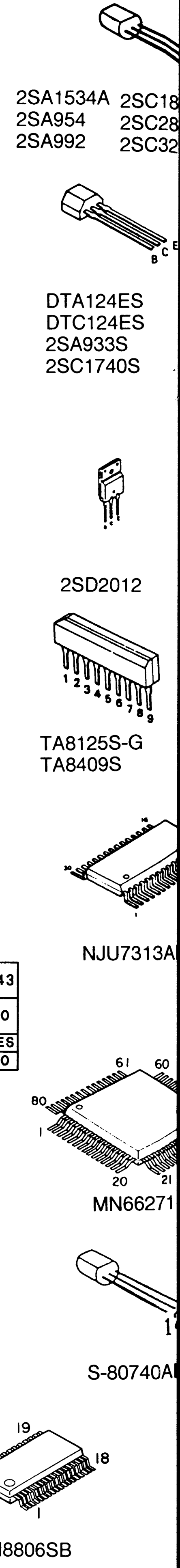

X25-(B/3)
WH1
D. SKIP
OPEN
S15
S16

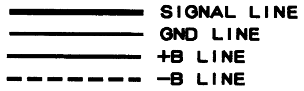
X25-(A/3)

IC1	:M38197MA-077FP
IC2	:M66310FP
IC3	:XR-1091FCP
IC4	:BA10393F
IC5	:S-80740AL
Q1, 3~6	:2SC2412K
Q2, 9~16	:2SA1037K
Q17, 18	:DTC124EU
D3	:HZS2. 7N(B2) or RD2. 7ES(B2)
D4, 44	:HZS5. 6N(B2) or RD5. 6ES(B2)
D5, 7, 9~21, 42	:1SS131 or HSS104A
D8, 38~41, 43 45, 51~58	:MA111
D22~25, 31~37	:B30-2462-05
D26~30	:B30-2463-05
ED1	:FIP8QMW5R

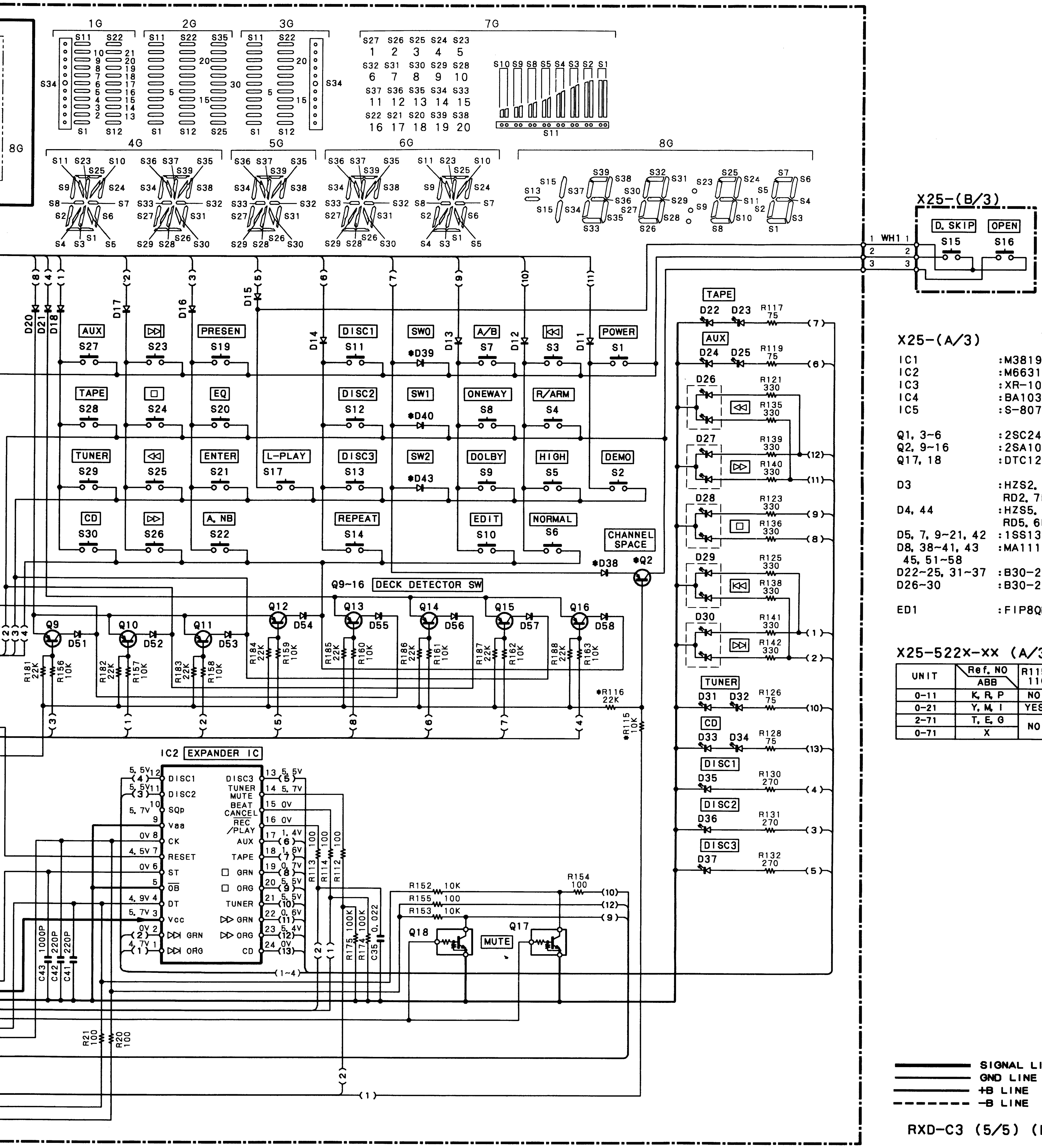
X25-522x-xx (A/3)

UNIT	Ref. NO / ABB	R115 116	Q2	D38	D39	D40	D43
0-11	K, R, P	NO	NO	NO	NO	NO	NO
0-21	Y, M, I	YES	YES	YES	YES		
2-71	T, E, G	NO	NO	NO	NO		YES
0-71	X				YES	YES	NO


2SA1534A
2SA954
2SA992
2SC18
2SC28
2SC32
DTA124ES
DTC124ES
2SA933S
2SC1740S
2SD2012
TA8125S-G
TA8409S
NJU7313A
MN66271
S-80740A
AN8806SB


SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-C3 (5/5) (K)


1G
2G
3G
7G
4G
5G
6G
8G
S11 S22 S35 S34 S1 S12 S25
S27 S26 S25 S24 S23
1 2 3 4 5
S32 S31 S30 S29 S28
6 7 8 9 10
S37 S36 S35 S34 S33
11 12 13 14 15
S22 S21 S20 S39 S38
16 17 18 19 20
S10 S9 S8 S5 S4 S3 S2 S1
X25-(B/3)
D. SKIP
OPEN
S15
S16
WH1
AUX S27
▷▷| S23
PRESEN S19
DISC1 S11
SW0 ✱D39
A/B S7
|◁◁ S3
POWER S1
TAPE S28
□ S24
EQ S20
DISC2 S12
SW1 ✱D40
ONEWAY S8
R/ARM S4
TUNER S29
◁◁ S25
ENTER S21
L-PLAY S17
DISC3 S13
SW2 ✱D43
DOLBY S9
HIGH S5
DEMO S2
CD S30
▷▷ S26
A. NB S22
REPEAT S14
EDIT S10
NORMAL S6
CHANNEL SPACE
✱D38
✱Q2
D20 D21 D18 D17 D16 D15 D14 D13 D12 D11
Q9-16 DECK DETECTOR SW
Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16
D51 D52 D53 D54 D55 D56 D57 D58
R181 22K R156 10K R182 22K R157 10K R183 22K R158 10K R184 22K R159 10K R185 22K R160 10K R186 22K R161 10K R187 22K R162 10K R188 22K R163 10K
✱R116 22K
✱R115 10K
TAPE D22 D23 R117 75
AUX D24 D25 R119 75
D26 R121 330 R135 330
D27 R139 330 R140 330
D28 R123 330 R136 330
D29 R125 330 R138 330
D30 R141 330 R142 330
TUNER D31 D32 R126 75
CD D33 D34 R128 75
DISC1 D35 R130 270
DISC2 D36 R131 270
DISC3 D37 R132 270
IC2 EXPANDER IC
DISC1 DISC2 SQp Vss CK RESET ST OB DT Vcc ▷▷| GRN ▷▷| ORG
DISC3 TUNER MUTE BEAT CANCEL REC /PLAY AUX TAPE □ GRN □ ORG TUNER ▷▷ GRN ▷▷ ORG CD
R113 100 R114 100 R112 100
R152 10K R155 100 R153 10K R154 100
R175 100K R174 100K C35 0.022
Q18 MUTE Q17
C43 1000P C42 220P C41 220P
R21 100 R20 100

X25-(A/3)

IC1 :M38197MA-077FP
IC2 :M66310FP
IC3 :XR-1091FCP
IC4 :BA10393F
IC5 :S-80740AL

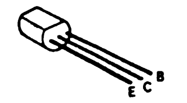
Q1, 3~6 :2SC2412K
Q2, 9~16 :2SA1037K
Q17, 18 :DTC124EU

D3 :HZS2. 7N(B2) or RD2. 7ES(B2)
D4, 44 :HZS5. 6N(B2) or RD5. 6ES(B2)
D5, 7, 9~21, 42 :1SS131 or HSS104A
D8, 38~41, 43 45, 51~58 :MA111
D22~25, 31~37 :B30-2462-05
D26~30 :B30-2463-05

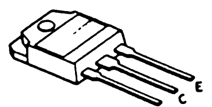
ED1 :FIP8QMW5R

X25-522X-XX (A/3)

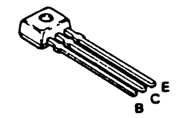
UNIT	Ref. NO / ABB	R115 116	Q2	D38	D39	D40	D43
0-11	K, R, P	NO	NO	NO	NO	NO	NO
0-21	Y, M, I	YES	YES	YES	YES		
2-71	T, E, G	NO	NO	NO	NO		YES
0-71	X				YES	YES	NO



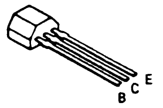
2SA1534A 2SC1845 2SC3246-G
2SA954 2SC2878 2SC3940A
2SA992 2SC3246 2SD863



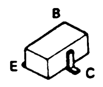
2SB1624
2SD2493



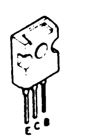
2SA1175
2SC2785



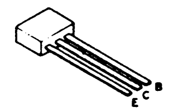
DTA124ES
DTC124ES
2SA933S
2SC1740S



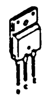
DTC124EU
2SA1037K
2SC2412K
2SC2714
2SD1757K



2SC4137



UN4212



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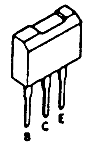
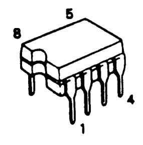
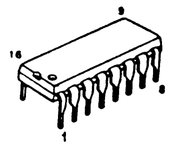


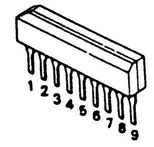
2SD1893



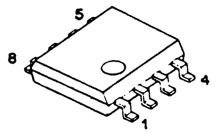
NJM4565D



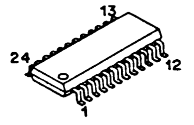
XR-1091ECP



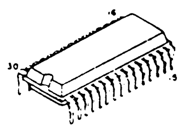
TA8125S-G
TA8409S



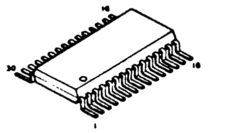
CXA1642M
NJM4565M



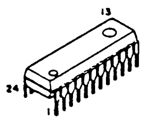
M66310FP



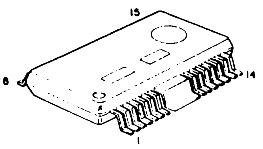
LA1851N



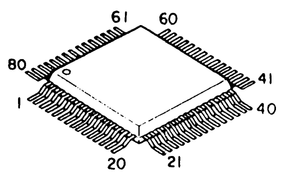
NJU7313AM



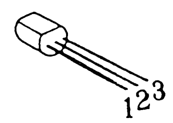
LC7218



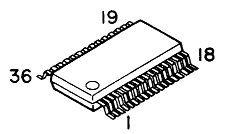
BA6398FP


61
60
80
41
1
40
20
21

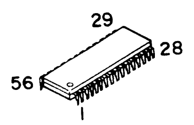
MN66271RA



S-80740AL



AN8806SB



HA12182NT

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

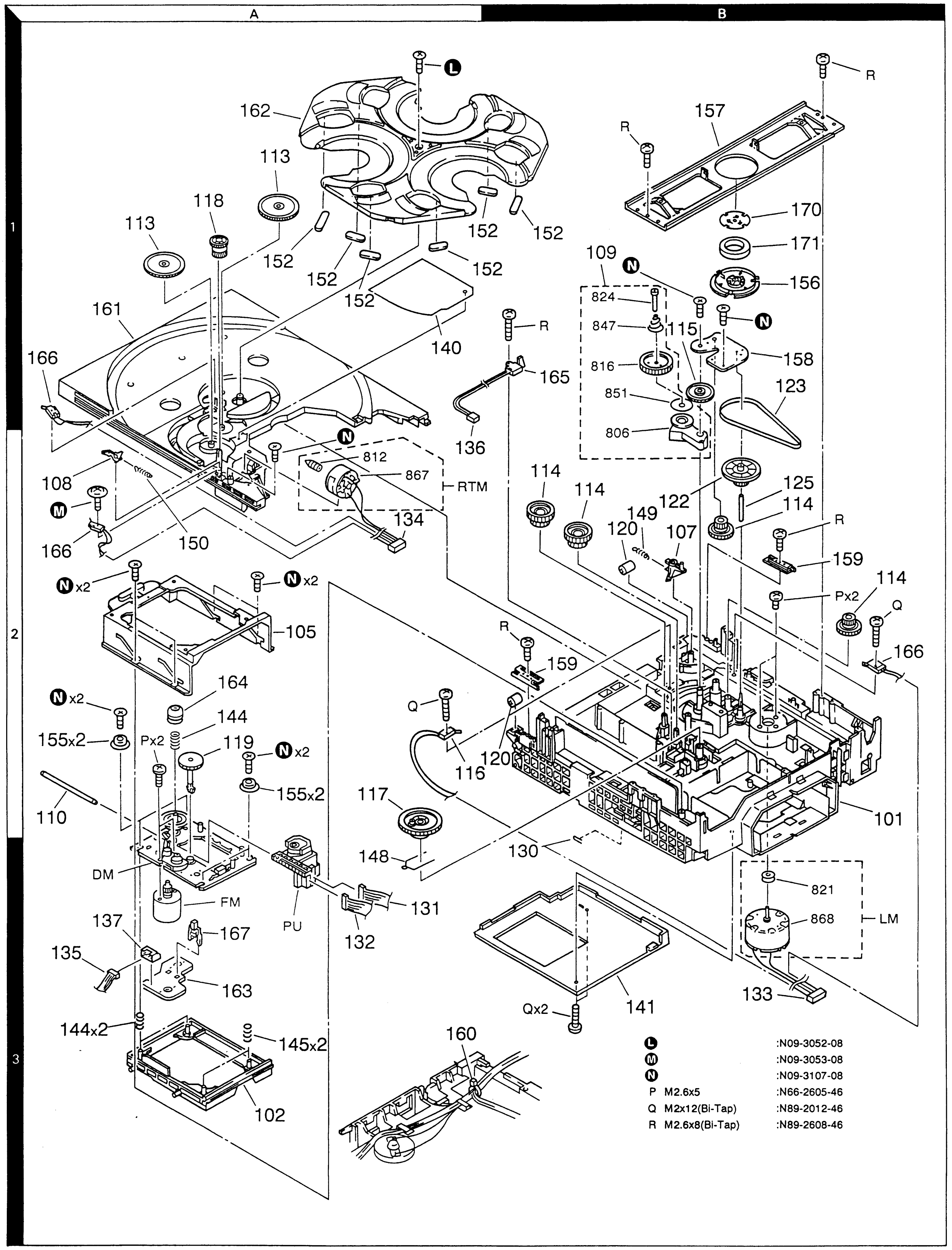
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

━━━━━ SIGNAL LINE
━━━━━ GND LINE
───── +B LINE
------- -B LINE

RXD-C3 (5/5) (K)

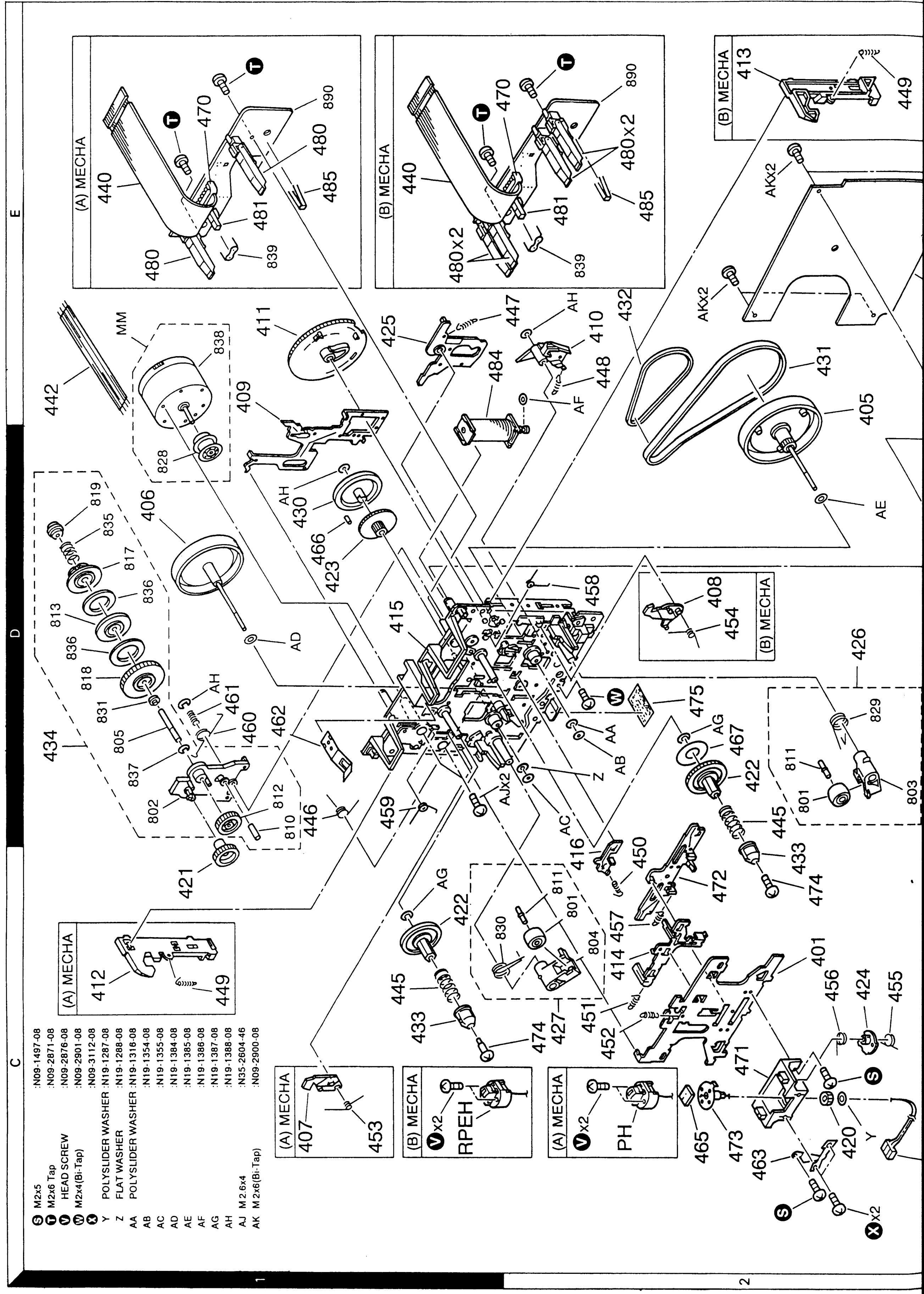
EXPLODED VIEW(CD MECHANISM)


A
B
1
2
3
L
R
162
157
113
118
113
152
152
152
152
152
152
170
171
156
109
N
824
847
115
816
851
806
158
123
161
140
R
165
166
136
N
812
867
RTM
108
M
150
134
166
114
114
122
125
114
149
120
107
R
159
N x2
N x2
105
R
Px2
114
Q
159
166
N x2
164
144
155x2
Px2
119
N x2
155x2
Q
116
120
117
101
110
148
130
DM
FM
PU
821
868
LM
137
167
131
132
135
163
133
141
144x2
145x2
Qx2
160
102

L		:N09-3052-08
M		:N09-3053-08
N		:N09-3107-08
P	M2.6x5	:N66-2605-46
Q	M2x12(Bi-Tap)	:N89-2012-46
R	M2.6x8(Bi-Tap)	:N89-2608-46

Parts with the exploded numbers larger than 700 are not supplied.

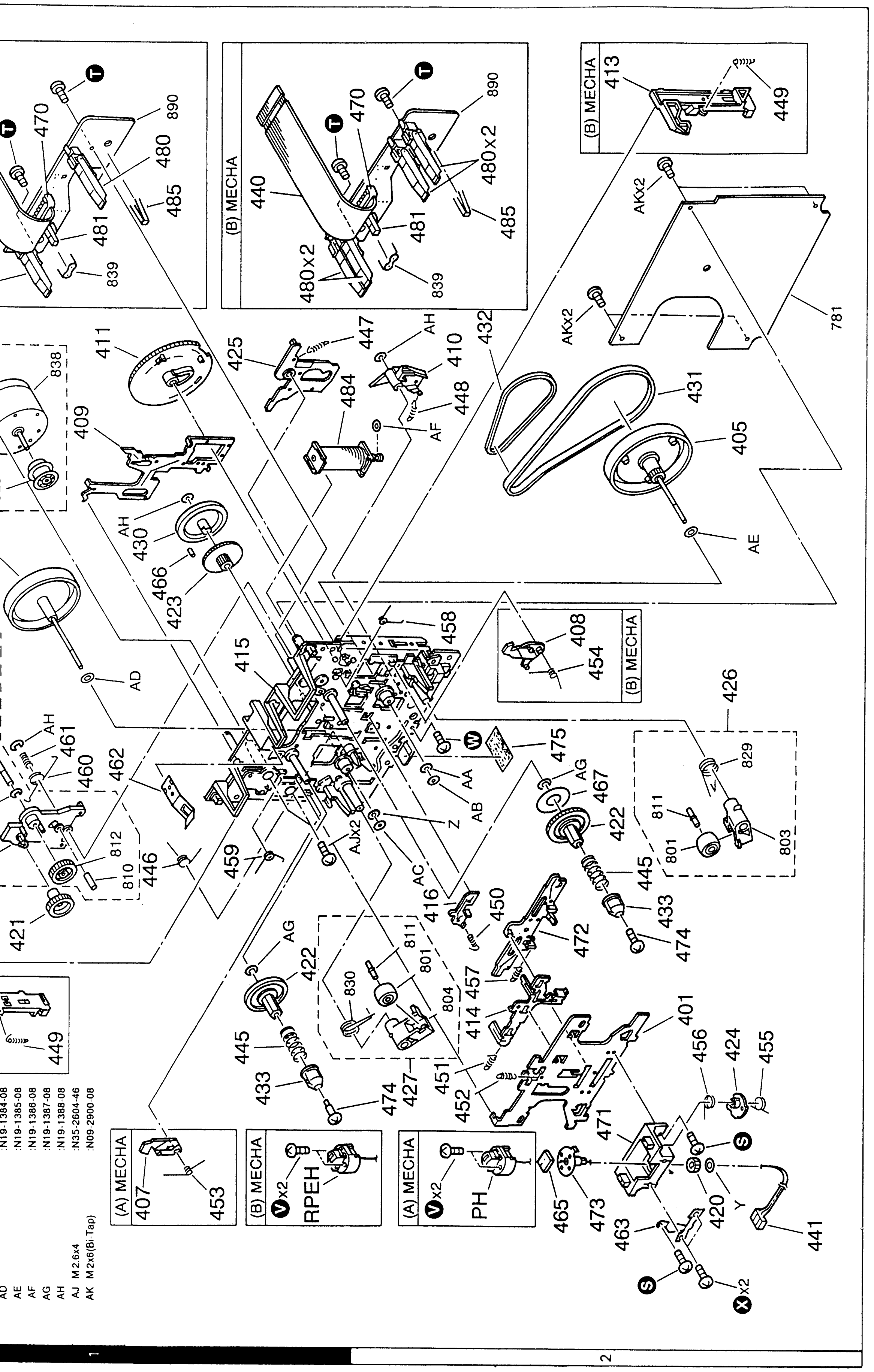
EXPLODED VIEW(CASSETTE DECK MECHANISM)


E
D
C
1
2
(A) MECHA
440
470
T
T
890
480
485
481
839
480
(B) MECHA
440
470
T
T
890
480x2
485
481
839
480x2
(B) MECHA
413
449
AKx2
AKx2
442
MM
838
828
411
409
425
447
484
AH
410
448
AF
432
431
405
AE
819
835
817
836
813
836
818
406
430
AH
466
423
AD
415
458
408
454
(B) MECHA
426
829
831
805
837
802
AH
461
460
462
812
810
446
459
W
475
AG
467
422
AA
AB
Z
AC
AJx2
445
433
474
811
801
803
434
421
416
450
472
(A) MECHA
412
449
AG
422
830
811
801
804
414
457
445
433
474
427
451
452
401
456
424
455
471
S
(A) MECHA
407
453
(B) MECHA
V x2
RPEH
(A) MECHA
V x2
PH
465
473
463
420
Y
S
X x2

S	M2x5	:N09-1497-08
T	M2x6 Tap	:N09-2871-08
V	HEAD SCREW	:N09-2876-08
W	M2x4(Bi-Tap)	:N09-2901-08
X		:N09-3112-08
Y	POLYSLIDER WASHER	:N19-1287-08
Z	FLAT WASHER	:N19-1288-08
AA	POLYSLIDER WASHER	:N19-1316-08
AB		:N19-1354-08
AC		:N19-1355-08
AD		:N19-1384-08
AE		:N19-1385-08
AF		:N19-1386-08
AG		:N19-1387-08
AH		:N19-1388-08
AJ	M 2.6x4	:N35-2604-46
AK	M 2x6(Bi-Tap)	:N09-2900-08

Parts with the exploded numbers larger than 700 are not s

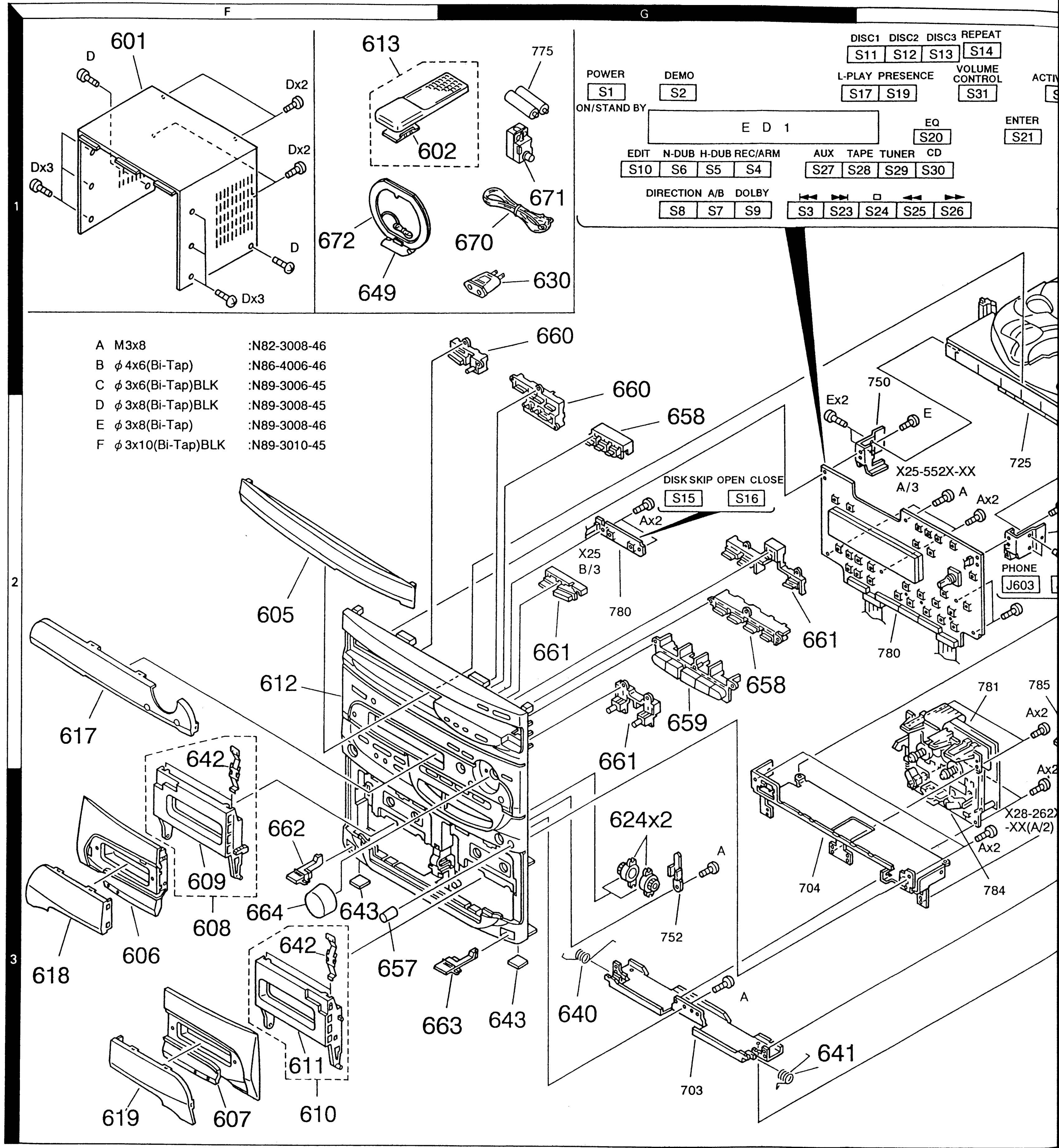
PLODED VIEW(CASSETTE DECK MECHANISM)


(B) MECHA
440
480x2
470
480x2
890
481
485
839
480
(B) MECHA
413
449
781
AKx2
411
838
409
425
447
AH
410
484
448
AF
432
431
405
AE
430
466
423
AD
415
458
408
454
(B) MECHA
426
829
811
801
803
461
460
462
812
810
446
421
459
AJx2
AA
AB
Z
AC
475
AG
467
422
445
433
474
416
450
472
AG
422
830
811
801
804
457
414
451
427
452
401
456
424
455
471
465
473
463
420
Y
441
X x2
S
449
445
433
474
(A) MECHA
407
453
(B) MECHA
V x2
RPEH
(A) MECHA
V x2
PH
1
2

AD		:N19-1384-08
AE		:N19-1385-08
AF		:N19-1386-08
AG		:N19-1387-08
AH		:N19-1388-08
AJ	M 2.6x4	:N35-2604-46
AK	M 2x6(Bi-Tap)	:N09-2900-08

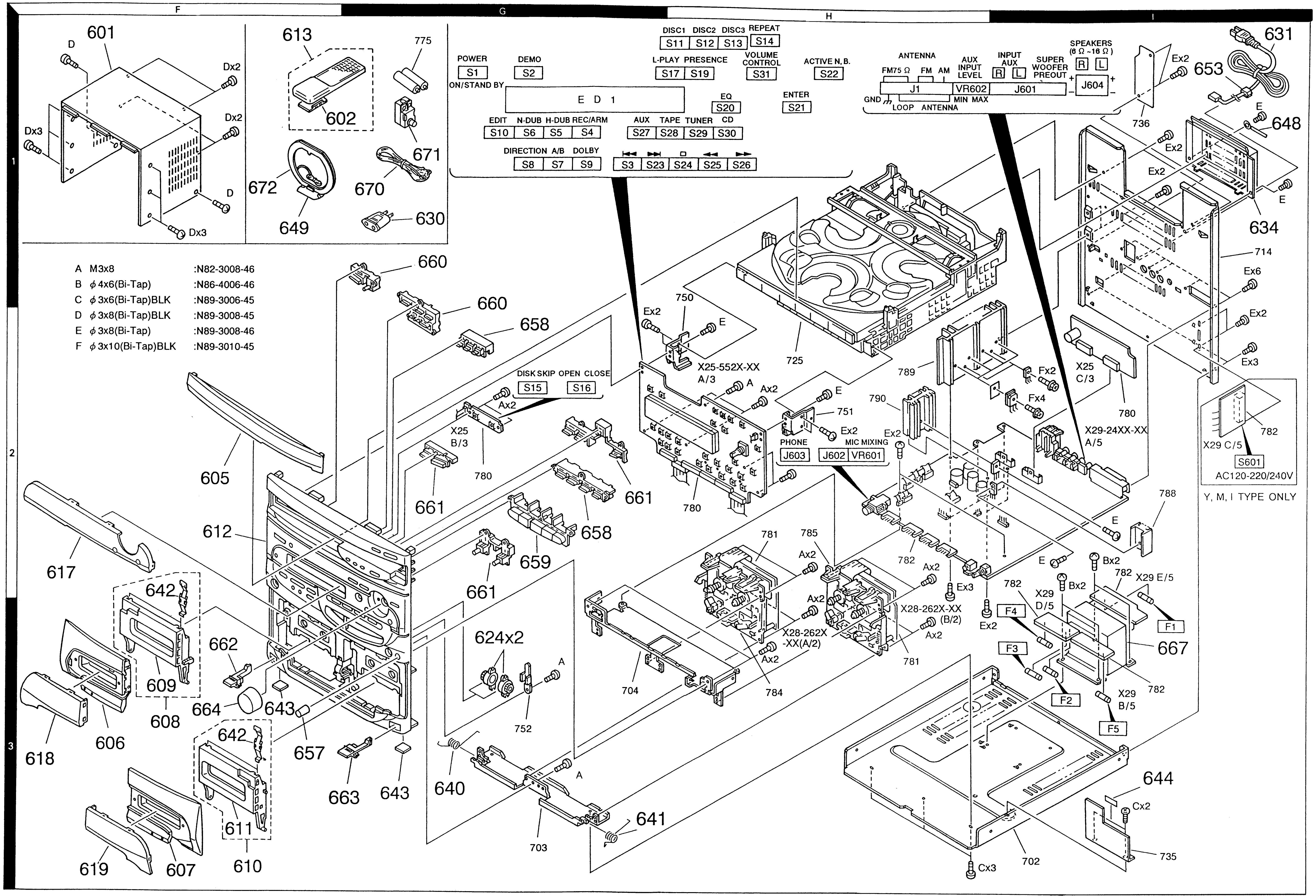
Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW(UNIT)


F
G
601
D
Dx2
Dx3
D
Dx3
613
602
775
671
672
670
649
630
POWER
S1
ON/STAND BY
DEMO
S2
DISC1 DISC2 DISC3 REPEAT
S11 S12 S13 S14
L-PLAY PRESENCE
S17 S19
VOLUME CONTROL
S31
ACTIV
E D 1
EQ
S20
ENTER
S21
EDIT N-DUB H-DUB REC/ARM
S10 S6 S5 S4
AUX TAPE TUNER CD
S27 S28 S29 S30
DIRECTION A/B DOLBY
S8 S7 S9
S3 S23 S24 S25 S26
660
660
658
DISK SKIP OPEN CLOSE
S15 S16
Ax2
X25 B/3
780
Ex2
750
E
X25-552X-XX A/3
A
Ax2
725
PHONE
J603
780
605
661
661
612
617
661
658
659
781
785
Ax2
642
609
608
662
664
643
657
618
606
642
611
610
619
607
663
643
624x2
A
752
704
X28-262X-XX(A/2)
Ax2
784
640
A
641
703
1
2
3

A	M3x8	:N82-3008-46
B	φ 4x6(Bi-Tap)	:N86-4006-46
C	φ 3x6(Bi-Tap)BLK	:N89-3006-45
D	φ 3x8(Bi-Tap)BLK	:N89-3008-45
E	φ 3x8(Bi-Tap)	:N89-3008-46
F	φ 3x10(Bi-Tap)BLK	:N89-3010-45

EXPLODED VIEW(UNIT)



A	M3x8	:N82-3008-46
B	φ4x6(Bi-Tap)	:N86-4006-46
C	φ3x6(Bi-Tap)BLK	:N89-3006-45
D	φ3x8(Bi-Tap)BLK	:N89-3008-45
E	φ3x8(Bi-Tap)	:N89-3008-46
F	φ3x10(Bi-Tap)BLK	:N89-3010-45

F
G
H
I
1
2
3
601
D
Dx2
Dx2
Dx3
D
Dx3
613
602
775
671
670
672
649
630
POWER
S1
ON/STAND BY
DEMO
S2
E D 1
DISC1 DISC2 DISC3 REPEAT
S11 S12 S13 S14
L-PLAY PRESENCE
S17 S19
VOLUME CONTROL
S31
ACTIVE N.B.
S22
EQ
S20
ENTER
S21
EDIT N-DUB H-DUB REC/ARM
S10 S6 S5 S4
AUX TAPE TUNER CD
S27 S28 S29 S30
DIRECTION A/B DOLBY
S8 S7 S9
S3 S23 S24 S25 S26
ANTENNA
FM75 Ω FM AM
AUX INPUT LEVEL
INPUT AUX
R L
SUPER WOOFER PREOUT
SPEAKERS (6 Ω ~16 Ω)
R L
J1
VR602
J601
J604
GND
LOOP ANTENNA
MIN MAX
631
653
Ex2
736
648
E
Ex2
Ex2
E
634
714
Ex6
Ex2
Ex3
660
660
658
750
Ex2
E
X25-552X-XX A/3
725
789
Fx2
Fx4
X25 C/3
780
A
Ax2
E
751
790
Ex2
Ex2
X29-24XX-XX A/5
782
X29 C/5
S601
AC120-220/240V
Y, M, I TYPE ONLY
DISK SKIP OPEN CLOSE
S15 S16
Ax2
X25 B/3
780
605
661
661
780
PHONE MIC MIXING
J603 J602 VR601
780
788
617
612
658
659
661
781
785
Ax2
782
Ax2
E
Bx2
782
X29 E/5
Ex3
Bx2
X29 D/5
F4
F1
Ex2
642
609
662
664
643
608
606
618
624x2
A
752
Ax2
X28-262X-XX (B/2)
Ax2
X28-262X -XX(A/2)
Ax2
704
784
781
F3
667
F2
782
X29 B/5
F5
642
657
663
643
640
A
611
610
619
607
641
703
644
Cx2
702
735
Cx3

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

DISTINATION		DISPLAY UNIT	RECORD/PLAYBACK UNIT	MAIN UNIT-TUNER (T,E,G TYPE)	MAIN UNIT-TUNER (K,P,R,Y,M,X TYPE)
SINGAPORE MADE	K	X25-5520-11	X28-2620-00	—	X29-2490-11
	R	X25-5520-11	X28-2620-00	—	X29-2490-11
	P	X25-5520-11	X28-2620-00	—	X29-2490-11
	Y	X25-5520-21	X28-2620-00	—	X29-2490-21
	M	X25-5520-21	X28-2620-00	—	X29-2490-21
	X	X25-5520-71	X28-2620-00	—	X29-2490-71
	T	X25-5520-71	X28-2620-00	X29-2482-70	—
	E	X25-5520-71	X28-2620-00	X29-2482-70	—
	G	X25-5520-71	X28-2620-00	X29-2482-70	—
MALAYSIA MADE	K	X25-5520-11	X28-2620-00	—	X29-2490-11
	R	X25-5520-11	X28-2620-00	—	X29-2490-11
	P	X25-5520-11	X28-2620-00	—	X29-2490-11
	Y	X25-5520-21	X28-2620-00	—	X29-2490-21
	M	X25-5520-21	X28-2620-00	—	X29-2490-21
	X	X25-5520-71	X28-2620-00	—	X29-2490-71
	T	X25-5520-71	X28-2620-00	X29-2482-70	—
	E	X25-5520-71	X28-2620-00	X29-2482-70	—
	G	X25-5520-71	X28-2620-00	X29-2482-70	—
	I	X25-5520-21	X28-2620-00	—	X29-2490-21

* New Parts

Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
RXD-C3/C3L						
601	1F	*	A01-3115-21	METALLIC CABINET		
602	1F		A09-0170-08	BATTERY COVER		
605	2F	*	A29-0367-12	PANEL (CD TRAY)		
606	3F	*	A53-1466-02	CASSETTE LID		A
607	3F	*	A53-1467-02	CASSETTE LID		B
608	3F	*	A53-1468-03	CASSETTE HOLDER ASSY		A
609	3F	*	A53-1469-02	CASSETTE HOLDER		A
610	3F	*	A53-1470-03	CASSETTE HOLDER ASSY		B
611	3F	*	A53-1471-02	CASSETTE HOLDER		B
612	2F	*	A60-0553-21	PANEL	KRPYMI	
612	2F	*	A60-0553-21	PANEL	X	
612	2F	*	A60-0572-21	PANEL	TEG	
613	1F	*	A70-0978-05	REMOTE CONTROLLER ASSY		
617	2F	*	B10-2012-13	FRONT GLASS		
618	3F	*	B10-2013-03	FRONT GLASS		A
619	3F	*	B10-2014-03	FRONT GLASS		B
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-43	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0307-13	WARRANTY CARD	K	
-			B46-0310-03	WARRANTY CARD	TEG	
-		*	B58-0964-03	CAUTION CARD	KRY	
-		*	B58-0965-03	CAUTION CARD	PXT	
-		*	B58-0966-03	CAUTION CARD	MIE	
-		*	B58-0968-04	CAUTION CARD	Y	
-		*	B58-0970-03	CAUTION CARD (R TYPE)	RG	
-		*	B60-1543-00	INSTRUCTION MANUAL(ENGLISH)	KRPYMI	
-		*	B60-1543-00	INSTRUCTION MANUAL(ENGLISH)	XTE	
-		*	B60-1544-00	INSTRUCTION MANUAL(FRENCH)	PE	
-		*	B60-1545-00	INSTRUCTION MANUAL(GERMAN)	EG	
-		*	B60-1546-00	INSTRUCTION MANUAL(DUTCH)	E	
-		*	B60-1547-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		*	B60-1548-00	INSTRUCTION MANUAL(SPANISH)	RME	
-		*	B60-1549-00	INSTRUCTION MANUAL(CHINESE)	MI	
624	3G	*	D39-0316-05	DAMPER		
⚠ 630	1G		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 631	1I		E30-2592-15	AC POWER CORD	MIEG	
⚠ 631	1I		E30-2605-05	AC POWER CORD	Y	
⚠ 631	1I		E30-2650-05	AC POWER CORD	KRP	
⚠ 631	1I		E30-2717-05	AC POWER CORD	X	
⚠ 631	1I		E30-2721-05	AC POWER CORD	T	
632	2G	*	E35-0886-05	WIRING HARNESS		A
633	2H	*	E35-0887-05	WIRING HARNESS		B
634	1I	*	F07-0737-03	COVER		
640	3G	*	G01-3652-24	TORSION COIL SPRING		
641	3G	*	G01-3653-24	TORSION COIL SPRING		
642	3F	*	G02-1040-04	FLAT SPRING		
643	3F	*	G11-2200-04	CUSHION		
644	3I		G10-0173-04	NON-WOVEN FABRIC		

L:Scandinavia K:USA P:Canada R:Mexico
Y:PX(Far East, Hawaii) T:England E:Europe G:Germany
Y:AAFES(Europe) X:Australia M, I:Other Areas

S : SINGAPORE MADE
W : MALAYSIA MADE

A : A DECK
B : B DECK

⚠ indicates safety critical components.

✳ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
-		*	H10-5724-12	POLYSTYRENE FOAMED FIXTURE		S
-		*	H10-5725-22	POLYSTYRENE FOAMED FIXTURE		S
-		*	H10-5818-12	POLYSTYRENE FOAMED FIXTURE		W
-		*	H10-5819-22	POLYSTYRENE FOAMED FIXTURE		W
-			H13-0086-04	CARTON BOARD		
-			H21-0305-04	PROTECTION SHEET		
-			H25-0632-24	PROTECTION BAG	KRPYMI	
-			H25-0632-24	PROTECTION BAG	XEG	
-			H25-0644-04	PROTECTION BAG	T	
-			H25-1509-04	PROTECTION BAG	MI	
-		*	H25-1536-04	PROTECTION BAG	KRPYXT	
-		*	H25-1536-04	PROTECTION BAG	EG	
-		*	H50-0993-04	ITEM CARTON CASE	KRPYX	S
-		*	H50-0994-04	ITEM CARTON CASE	M	S
-		*	H50-0995-14	ITEM CARTON CASE	TEG	S
-		*	H50-1139-04	ITEM CARTON CASE	KRPYX	W
-		*	H50-1140-04	ITEM CARTON CASE	M	W
-		*	H50-1141-14	ITEM CARTON CASE	I	W
-		*	H50-1142-14	ITEM CARTON CASE	TEG	W
648	1I		J19-2808-05	HOLDER	MI	
649	1F		J19-3645-05	ANTENNA STAND		
⚠ 653	1I		J42-0083-05	POWER CORD BUSHING		
657	3F		K29-5810-04	KNOB (MIC)		
658	2G	*	K29-5870-03	KNOB (INPUT&DIS)		
659	2G	*	K29-5871-13	KNOB		
660	1G	*	K29-5872-03	KNOB		
661	2G	*	K29-5873-22	KNOB		
662	3F	*	K29-5874-24	KNOB (EJECT)(L)		
663	3F	*	K29-5875-24	KNOB (EJECT)(R)		
664	3F	*	K29-5903-24	KNOB (VOL)		
⚠ 667	3I	*	L07-0891-15	POWER TRANSFORMER	KRP	
⚠ 667	3I	*	L07-0892-15	POWER TRANSFORMER	YMI	
⚠ 667	3I	*	L07-0893-15	POWER TRANSFORMER	XT	
⚠ 667	3I	*	L07-0894-15	POWER TRANSFORMER	EG	
670	1G		T90-0175-05	T TYPE ANTENNA		
671	1G		T90-0185-05	ANTENNA ADAPTOR	TEG	
672	1F		T90-0195-05	LOOP ANTENNA		
DISPLAY UNIT(X25-552X-XX)						
D22 -25		*	B30-2462-05	LED(GRN)		
D26 -30		*	B30-2463-05	LED(TWIN VRPG 561)		
D31 -37		*	B30-2462-05	LED(GRN)		
C1			C90-3210-05	ELECTRO 22UF 6.3WV		
C2			CK73FB1H223K	CHIP C 0.022UF K		
C3			CC73FSL1H102J	CHIP C 1000PF J		
C4			C90-3210-05	ELECTRO 22UF 6.3WV		
C5			CK73FB1H223K	CHIP C 0.022UF K		
C6			C90-3214-05	ELECTRO 100UF 6.3WV		
C9			CK73FB1H223K	CHIP C 0.022UF K		
C15			CK73FB1H103K	CHIP C 0.010UF K		
C20			C90-1827-05	BACKUP 0.047F 5.5WV		
C21			CK73FF1C105Z	CHIP C 1.0UF Z		
C22			CK73FB1H103K	CHIP C 0.010UF K		
C23 ,24			C90-3253-05	ELECTRO 1UF 50WV		

L:Scandinavia **K**:USA **P**:Canada **R**:Mexico
Y:PX(Far East, Hawaii) **T**:England **E**:Europe **G**:Germany
Y:AAFES(Europe) **X**:Australia **M, I**:Other Areas

S : SINGAPORE MADE A : A DECK
W : MALAYSIA MADE B : B DECK

⚠ indicates safety critical components.

✳ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

No.3

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C26			CC73FCH1H220J	CHIP C 22PF J		
C27			CC73FCH1H180J	CHIP C 18PF J		
C28 ,29			CK73FB1E104K	CHIP C 0.10UF K		
C30			C90-3214-05	ELECTRO 100UF 6.3WV		
C32			C90-3214-05	ELECTRO 100UF 6.3WV		
C35			CK73FB1H223K	CHIP C 0.022UF K		
C36			C90-3253-05	ELECTRO 1UF 50WV		
C41 ,42			CC73FCH1H221J	CHIP C 220PF J		
C43			CK73FB1H102K	CHIP C 1000PF K		
C44 -46			CK73FF1C105Z	CHIP C 1.0UF Z		
C201,202			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C203,204			CE04LW1V100M	ELECTRO 10UF 35WV		
C205,206			CE04LW1HR22M	ELECTRO 0.22UF 50WV		
C207,208			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C209,210			CF92FV1H105J	MF 1.0UF J		
C211,212			CF92FV1H333J	MF 0.033UF J		
C213,214			CF92FV1H104J	MF 0.10UF J		
C215,216			CC45FSL1H101J	CERAMIC 100PF J	TEG	
C217,218			CC73FSL1H681J	CHIP C 680PF J		
C219,220			CC45FSL1H470J	CERAMIC 47PF J		
C221,222			CE04LW1A331M	ELECTRO 330UF 10WV		
C223,224			CK45FB1H152K	CERAMIC 1500PF K	TEG	
C251			CK73FB1E823K	CHIP C 0.082UF K		
C252			CC73FSL1H681J	CHIP C 680PF J		
C253,254			CE04LW1V220M	ELECTRO 22UF 35WV		
C255,256			CK73FF1C105Z	CHIP C 1.0UF Z		
C257			CK73FB1E104K	CHIP C 0.10UF K		
C258			CK73FB1H222K	CHIP C 2200PF K		
C259,260			CK73FB1H223K	CHIP C 0.022UF K		
C261			CK73FB1H102K	CHIP C 1000PF K		
C262			CK73FB1H682K	CHIP C 6800PF K		
C263			CK73FB1E563K	CHIP C 0.056UF K		
C264			CK73FB1H682K	CHIP C 6800PF K		
C265			CK73FB1E563K	CHIP C 0.056UF K		
C266			CE04LW1V470M	ELECTRO 47UF 35WV		
C267			CE04LW1C101M	ELECTRO 100UF 16WV		
C268			CE04LW1H471M	ELECTRO 470UF 50WV		
C269,270			CC73FCH1H221J	CHIP C 220PF J		
C271-274			CK73FF1C105Z	CHIP C 1.0UF Z		
CN5		*	E40-4725-05	FLAT CABLE CONNCTOR		
CN6		*	E40-4729-05	FLAT CABLE CONNCTOR		
L1 ,2			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
X1			L78-0605-05	RESONATOR (8.38MHZ)		
X2			L77-2111-05	CRYSTAL RESONATOR(32.768KHZ)		
R100			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R171,172			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R254			RD14NB2E150J	RD 15 J 1/4W		
R257			RD14NB2E101J	RD 100 J 1/4W		
W210			R92-0670-05	CHIP R 0 OHM		
S1 -17	1G,1H		S40-1064-05	PUSH SWITCH		
S19 -30	1G,1H		S40-1064-05	PUSH SWITCH		
S31	1H		T99-0548-05	SPEED DETECTOR		

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Y:AAFES(Europe) **X**:Australia **M, I**:Other Areas

S : SINGAPORE MADE A : A DECK
W : MALAYSIA MADE B : B DECK

⚠ indicates safety critical components.

⁎ New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
D3			HZS2.7N(B2)	ZENER DIODE		
D3			RD2.7ES(B2)	ZENER DIODE		
D4			HZS5.6N(B2)	ZENER DIODE		
D4			RD5.6ES(B2)	ZENER DIODE		
D5			HSS104A	DIODE		
D5			1SS131	DIODE		
D7			HSS104A	DIODE		
D7			1SS131	DIODE		
D8		*	MA111	DIODE		
D9 -18			HSS104A	DIODE		
D9 -18			1SS131	DIODE		
D20 ,21			HSS104A	DIODE		
D20 ,21			1SS131	DIODE		
D38 ,39		*	MA111	DIODE	YM	
D39 -41		*	MA111	DIODE	X	
D41		*	MA111	DIODE	KRPYMT	
D41		*	MA111	DIODE	EG	
D42			HSS104A	DIODE		
D42			1SS131	DIODE		
D43		*	MA111	DIODE	TEG	
D44			HZS5.6N(B2)	ZENER DIODE		
D44			RD5.6ES(B2)	ZENER DIODE		
D45		*	MA111	DIODE		
D51 -58		*	MA111	DIODE		
ED1		*	FIP8QMW5R	INDICATOR TUBE		
IC1		*	M38197MA-077FP	MOS-IC		
IC2		*	M66310FP	MOS-IC		
IC3			XR-1091ECP	IC(GE FILTER)		
IC4		*	BA10393F	IC		
IC5			S-80740AL	IC(VOLTAGE DETECTOR)		
IC201		*	UPC1853CT-02	ANALOG IC		
IC202			NJM4565M	IC(OP AMP X2)		
Q1			2SC2412K	TRANSISTOR		
Q2			2SA1037K	TRANSISTOR	YM	
Q3 -6			2SC2412K	TRANSISTOR		
Q9 -16			2SA1037K	TRANSISTOR		
Q17 ,18			DTC124EU	DIGITAL TRANSISTOR		
Q201,202			2SC2878(B)	TRANSISTOR		
Q203-206			2SC1845(F,E)	TRANSISTOR		
Q207,208			2SA992(F,E)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		

RECORD/PLAYBACK UNIT(X28-2620-00)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C1 ,2			CK45FB1H471K	CERAMIC 470PF K		
C5 ,6			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C7 ,8			CK45FB1H391K	CERAMIC 390PF K		
C9 ,10			CQ92FM1H223J	MYLAR 0.022UF J		
C11 ,12			CE04LW1C470M	ELECTRO 47UF 16WV		
C13			CE04LW1C101M	ELECTRO 100UF 16WV		
C14		*	CQ93HP2A822J-G	MYLAR 8200PF J		
C15 -18			CC45FSL1H221J	CERAMIC 220PF J		
C19		*	CK45FB2H471K-G	CERAMIC 470PF K		
C20			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C21 ,22			CK45FB1H332K	CERAMIC 3300PF K		

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Y:AAFES(Europe) **X**:Australia **M, I**:Other Areas ⚠ indicates safety critical components.

⁎ New Parts
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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C23			CK45FF1H103Z	CERAMIC 0.010UF Z		
C24			CK45FB1H102K	CERAMIC 1000PF K		
C51 ,52			CC45FSL1H221J	CERAMIC 220PF J		
C53 ,54			CK45FB1H471K	CERAMIC 470PF K		
C55 ,56			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C57 ,58			CK45FB1H391K	CERAMIC 390PF K		
C59 ,60			CE04LW1C470M	ELECTRO 47UF 16WV		
C61 ,62			CQ92FM1H153J	MYLAR 0.015UF J		
C63			CE04LW1C101M	ELECTRO 100UF 16WV		
C64			CK45FB1H102K	CERAMIC 1000PF K		
CN3			E40-4163-05	FLAT CABLE CONNCTOR		
CN6			E40-4155-05	FLAT CABLE CONNCTOR		
J1 ,2			J11-0098-05	WIRE CLAMPER		
L1 ,2			L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)		
L3			L32-0542-05	BIAS OSCILATING COIL		
VR1			R12-3685-05	TRIMMING POT.(10K ｱｾ)		
VR2			R12-3686-05	TRIMMING POT.(22K ｱｾ)		
VR3 ,4			R12-0605-05	TRIMMING POT.(220 ｱｾ)		
VR5 ,6		*	R12-5086-05-G	TRIMMING POT.(100K ｱｾ)		
VR7			R12-3685-05	TRIMMING POT.(10K ｱｾ)		
VR8			R12-3686-05	TRIMMING POT.(22K ｱｾ)		
VR9 ,10			R12-0606-05	TRIMMING POT.(330 ｱｾ)		
K1			S51-2089-05	MAGNETIC RELAY		
K1		*	S76-0018-05-G	MAGNETIC RELAY		
D7 -9			HSS104	DIODE		
D7 -9			1SS133	DIODE		
D54 ,55			HSS104	DIODE		
D54 ,55			1SS133	DIODE		
IC1 ,2		*	TA8125S-G	IC(2CH PRE AMP)		
Q1 ,2		*	2SC3246-G	TRANSISTOR		
Q3 ,4			2SC1845(F,E)	TRANSISTOR		
Q5			2SA992(F,E)	TRANSISTOR		
Q6			2SA1175(F,E)	TRANSISTOR		
Q6			2SA933S(Q,R)	TRANSISTOR		
Q7			2SC1740S(Q,R)	TRANSISTOR		
Q7			2SC2785(F,E)	TRANSISTOR		
Q8			DTC124ES	DIGITAL TRANSISTOR		
Q8			UN4212	TRANSISTOR		
Q9 -12			2SC1740S(Q,R)	TRANSISTOR		
Q9 -12			2SC2785(F,E)	TRANSISTOR		
Q13 ,14		*	2SC3246-G	TRANSISTOR		
Q15			2SA1175(F,E)	TRANSISTOR		
Q15			2SA933S(Q,R)	TRANSISTOR		
Q16			2SC1740S(Q,R)	TRANSISTOR		
Q16			2SC2785(F,E)	TRANSISTOR		
Q17 -19			DTC124ES	DIGITAL TRANSISTOR		
Q17 -19			UN4212	TRANSISTOR		

MAIN UNIT-TUNER(X29-2482-70) : E, T, G TYPE

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C1 ,2			CK73FB1H103K	CHIP C 0.010UF K		
C4			CE04LW1C470M	ELECTRO 47UF 16WV		
C5			CK73FB1H223K	CHIP C 0.022UF K		
C6			CK73FB1E473K	CHIP C 0.047UF K		

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⁎ New Parts
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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
C7			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C8			CK73FB1H682K	CHIP C 6800PF K		
C9			CK73FB1H103K	CHIP C 0.010UF K		
C10			CC73FCH1H330J	CHIP C 33PF J		
C11			CE04LW1V100M	ELECTRO 10UF 35WV		
C12			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C13			CE04LW1HR33M	ELECTRO 0.33UF 50WV		
C14			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C21 ,22			CK73FB1H682K	CHIP C 6800PF K		
C23			CE04LW1V100M	ELECTRO 10UF 35WV		
C25			CE04LW1V100M	ELECTRO 10UF 35WV		
C27			CE04LW1V100M	ELECTRO 10UF 35WV		
C28			CK73FB1E473K	CHIP C 0.047UF K		
C31			CE04LW1A470M	ELECTRO 47UF 10WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CC73FCH1H270J	CHIP C 27PF J		
C34			CC73FCH1H220J	CHIP C 22PF J		
C35 -38			CK73FB1H471K	CHIP C 470PF K		
C39			CE04LW1C470M	ELECTRO 47UF 16WV		
C40			CQ92FM1H223J	MYLAR 0.022UF J		
C41			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C42 ,43			CK73FB1H103K	CHIP C 0.010UF K		
C47 ,48			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C50			CK73FB1H103K	CHIP C 0.010UF K		
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04LW1C470M	ELECTRO 47UF 16WV		
C57			CC73FCH1H220J	CHIP C 22PF J		
C65			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C66			C91-0769-05	CERAMIC 0.01UF K		
C107			CK73FB1E473K	CHIP C 0.047UF K		
C151			CK73FB1E104K	CHIP C 0.10UF K		
C182			CC73FSL1H150J	CHIP C 15PF J		
J1			E20-0321-05	LOCK TERMINAL BOARD		
J2		*	F10-0921-14	SHIELDING PLATE		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
L1 ,2			L40-1091-17	SMALL FIXED INDUCTOR		
L3			L30-0498-05	FM IFT		
L5			L79-0125-05	LC FILTER		
L7		*	L30-0911-05	AM IFT		
L10			L40-1091-17	SMALL FIXED INDUCTOR		
L103			L39-1325-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTOR		
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)		
X2			L78-0295-05	RESONATOR (456KHZ)		
R11			RD14NB2E470J	RD 47 J 1/4W		
R31			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R42			RD14NB2E101J	RD 100 J 1/4W		
R111			RD14NB2E470J	RD 47 J 1/4W		
VR1			R12-3686-05	TRIMMING POT.(22K フセ)		
VR2			R12-3685-05	TRIMMING POT.(10K フセ)		
VR3			R12-1619-05	TRIMMING POT.(4.7K フセ)		
D3			HZS5.1N(B2)	ZENER DIODE		

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
D3			RD5.1ES(B2)	ZENER DIODE		
D4			HZS3.3N(B2)	ZENER DIODE		
D4			RD3.3ES(B2)	ZENER DIODE		
D5			HSS104	DIODE		
D5			1SS133	DIODE		
D111,112			HSS104	DIODE		
D111,112			1SS133	DIODE		
IC1			LA1851N	IC(AM,FM TUNER)		
IC2			LC7218	IC(PLL SYNTHESIZER)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q3 ,4			2SC2412K	TRANSISTOR		
Q5			2SA1037K	TRANSISTOR		
Q7			2SC2412K	TRANSISTOR		
Q102,103			2SA1037K	TRANSISTOR		
Q109,110			2SD1757K	TRANSISTOR		
Q111			2SA1037K	TRANSISTOR		
Q113,114			2SC2412K	TRANSISTOR		
Q116			2SC2412K	TRANSISTOR		
A1			W02-1166-15	FM FRONT-END ASSY		
MAIN UNIT-TUNER(X29-249X-XX) : K, P, Y, M, X, R, I TYPE						
C1 ,2			CK73FB1H103K	CHIP C 0.010UF K		
C4			CE04LW1A470M	ELECTRO 47UF 10WV		
C5			CK73FB1H103K	CHIP C 0.010UF K		
C8			CK73FB1H103K	CHIP C 0.010UF K		
C10			CK73FB1H102K	CHIP C 1000PF K		
C11			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C13			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C14			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C21 ,22			CQ92FM1H163J	MYLAR 0.016UF J	YMX	
C21 ,22			CQ92FM1H243J	MYLAR 0.024UF J	KRP	
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C24			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C25			CE04LW1V100M	ELECTRO 10UF 35WV		
C27			CK73FB1E473K	CHIP C 0.047UF K		
C28			CE04LW1V100M	ELECTRO 10UF 35WV		
C31			CE04LW1A470M	ELECTRO 47UF 10WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CC73FCH1H270J	CHIP C 27PF J		
C34			CC73FCH1H220J	CHIP C 22PF J		
C35 -38			CK73FB1H471K	CHIP C 470PF K		
C39			CE04LW1C470M	ELECTRO 47UF 16WV		
C40			CK73FB1H223K	CHIP C 0.022UF K		
C41			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C42 ,43			CK73FB1H103K	CHIP C 0.010UF K		
C50			C91-0769-05	CERAMIC 0.01UF K		
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04LW1C470M	ELECTRO 47UF 16WV		
C57			CC73FCH1H220J	CHIP C 22PF J		
C61			CK73FB1H103K	CHIP C 0.010UF K		
C62			CE04LW1C101M	ELECTRO 100UF 16WV		
C65			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C66			CK73FB1H103K	CHIP C 0.010UF K		
C71			CE04LW1V100M	ELECTRO 10UF 35WV		

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No.8

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C72			CE04LW1C470M	ELECTRO 47UF 16WV		
C103-106			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C107			CK73FB1E473K	CHIP C 0.047UF K		
C112			CC73FSL1H101J	CHIP C 100PF J		
C114			CK73FB1H681K	CHIP C 680PF K		
C116			CC73FSL1H101J	CHIP C 100PF J		
C117			CK73FB1H681K	CHIP C 680PF K		
C118			CK73FB1H103K	CHIP C 0.010UF K		
C119			CC73FSL1H101J	CHIP C 100PF J		
C121,122			CE04LW1C470M	ELECTRO 47UF 16WV		
C135,136			CQ92FM1H682J	MYLAR 6800PF J	YM	
C182			CC73FSL1H150J	CHIP C 15PF J		
J1	1H		E20-0476-05	LOCK TERMINAL BOARD(4P)		
J2		*	F10-0945-04	SHIELDING PLATE		
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0574-05	CERAMIC FILTER		
L7		*	L30-0911-05	AM IFT		
L10			L40-1091-17	SMALL FIXED INDUCTOR		
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L12			L40-1091-17	SMALL FIXED INDUCTOR		
L103			L39-1328-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTOR		
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)		
X2			L78-0295-05	RESONATOR (456KHZ)		
R11			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R31			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R42			RD14NB2E101J	RD 100 J 1/4W		
R111			RD14NB2E470J	RD 47 J 1/4W		
R127,128			RD14NB2E101J	RD 100 J 1/4W		
S101			S62-0034-05	SLIDE SWITCH	YM	
D3			HZS5.1N(B2)	ZENER DIODE		
D3			RD5.1ES(B2)	ZENER DIODE		
D4			HZS3.3N(B2)	ZENER DIODE		
D4			RD3.3ES(B2)	ZENER DIODE		
D7			MA110	DIODE		
D8			HSS104	DIODE		
D8			1SS133	DIODE		
D11			HZS8.2N(B2)	ZENER DIODE		
D11			RD8.2ES(B2)	ZENER DIODE		
D111,112			MA110	DIODE		
IC1		*	LA1831A-KEN	ANALOG IC		
IC2			LC7218	IC(PLL SYNTHESIZER)		
IC12			NJM4565D	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q3			2SC1740S(Q,R)	TRANSISTOR		
Q3			2SC2785(F,E)	TRANSISTOR		
Q7			2SC2412K	TRANSISTOR		
Q11			2SD863(E,F)	TRANSISTOR		
Q102			2SA1037K	TRANSISTOR		
Q104			2SA1037K	TRANSISTOR		
Q107,108			2SC2412K	TRANSISTOR	YM	

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Y:AAFES(Europe) **X**:Australia **M, I**:Other Areas ⚠ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

No.9

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
Q109,110			2SD1757K	TRANSISTOR		
Q111			2SA1037K	TRANSISTOR		
MAIN UNIT-EXCEPT TUNER(X29-25XX-XX)						
C201			CE04LW1V100M	ELECTRO 10UF 35WV		
C202			CE04LW1A470M	ELECTRO 47UF 10WV		
C203			CC73FCH1H330J	CHIP C 33PF J		
C204			CK73FB1E104K	CHIP C 0.10UF K		
C205			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C206			CE04LW0J471M	ELECTRO 470UF 6.3WV		
C207			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C208			CC73FSL1H101J	CHIP C 100PF J		
C209			CK73FB1H273K	CHIP C 0.027UF K		
C210			CK73FB1H681K	CHIP C 680PF K		
C211			CK73FB1H222K	CHIP C 2200PF K		
C212			CK73FB1H331K	CHIP C 330PF K		
C213			CC73FSL1H331J	CHIP C 330PF J		
C214			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C215			CK73FB1E104K	CHIP C 0.10UF K		
C216			CK73FB1H332K	CHIP C 3300PF K		
C217,218			CK73FB1E104K	CHIP C 0.10UF K		
C219			CK73FB1H273K	CHIP C 0.027UF K		
C220			CK73FB1H153K	CHIP C 0.015UF K		
C221,222			CE04LW1A101M	ELECTRO 100UF 10WV		
C223			CK73FB1C224K	CHIP C 0.22UF K		
C224			CK73FB1E104K	CHIP C 0.10UF K		
C225,226			CK73FB1H472K	CHIP C 4700PF K		
C227			CK73FB1H102K	CHIP C 1000PF K		
C228,229			CK73FB1H223K	CHIP C 0.022UF K		
C230,231			CE04HW1HR33M	NP-ELEC 0.33UF 50WV		
C232			CK73FB1E104K	CHIP C 0.10UF K		
C233			CE04LW1A101M	ELECTRO 100UF 10WV		
C234			CK73FB1E104K	CHIP C 0.10UF K		
C235			CE04LW1A101M	ELECTRO 100UF 10WV		
C236			CK73FB1E104K	CHIP C 0.10UF K		
C237			CE04LW1A331M	ELECTRO 330UF 10WV		
C240,241			CC73FSL1H102J	CHIP C 1000PF J		
C242,243			CC73FSL1H151J	CHIP C 150PF J		
C244,245			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C246			CE04LW1A470M	ELECTRO 47UF 10WV		
C247			CE04LW0J331M	ELECTRO 330UF 6.3WV		
C248			CE04LW1A101M	ELECTRO 100UF 10WV		
C249			CK73FF1C105Z	CHIP C 1.0UF Z		
C250,251			CK73FB1H103K	CHIP C 0.010UF K		
C253			CK73FB1E104K	CHIP C 0.10UF K		
C254			CK73FF1C105Z	CHIP C 1.0UF Z		
C255-260			CC73FSL1H221J	CHIP C 220PF J		
C261			CE04HW1E100M	NP-ELEC 10UF 25WV		
C262			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C401,402			CK73FB1H682K	CHIP C 6800PF K		
C403,404			CK73FB1H393K	CHIP C 0.039UF K		
C405,406			CC73FSL1H221J	CHIP C 220PF J		
C407-410			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C411,412			CQ92FM1H333J	MYLAR 0.033UF J		
C413,414			CE04LW1HR47M	ELECTRO 0.47UF 50WV		

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No.10

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C415,416			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C417,418			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C419,420			CE04LW1V100M	ELECTRO 10UF 35WV		
C421,422			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C423,424			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C425,426			CE04LW1A101M	ELECTRO 100UF 10WV		
C427,428			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C429-432			CK73FB1H222K	CHIP C 2200PF K		
C501			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C502			CK73FB1H103K	CHIP C 0.010UF K		
C503			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C504			CE04LW1C101M	ELECTRO 100UF 16WV		
C506			CE04LW1C220M	ELECTRO 22UF 16WV		
C507			CE04LW1V100M	ELECTRO 10UF 35WV		
C508			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C603,604			CC73FSL1H221J	CHIP C 220PF J		
C619-622			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C623,624			CE04LW1V100M	ELECTRO 10UF 35WV		
C625			CK73FB1E104K	CHIP C 0.10UF K		
C633,634			CE04LW1H220M	ELECTRO 22UF 50WV		
C635,636			CQ92FM1H473J	MYLAR 0.047UF J		
C639,640			CK45FB1H222K	CERAMIC 2200PF K		
C643,644			CE04LW1C220M	ELECTRO 22UF 16WV		
C645			CK73FB1H222K	CHIP C 2200PF K		
C646			CK45FB1H222K	CERAMIC 2200PF K		
C701			CE04LW1C470M	ELECTRO 47UF 16WV		
C702-704			CC73FSL1H221J	CHIP C 220PF J		
C705			CE04LW1V100M	ELECTRO 10UF 35WV		
C706,707			CE04LW1C470M	ELECTRO 47UF 16WV		
C708			CC73FSL1H102J	CHIP C 1000PF J		
C710			CE04HW1A470M	NP-ELEC 47UF 10WV		
C711			CE04LW1H100M	ELECTRO 10UF 50WV		
C712			CE04LW1H101M	ELECTRO 100UF 50WV		
C713			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C714			CE04LW1V470M	ELECTRO 47UF 35WV		
C715,716			C90-3541-05	ELECTRO 3300UF 40WV		
C717			CE04LW1H471M	ELECTRO 470UF 50WV		
C718			CE04LW1V330M	ELECTRO 33UF 35WV		
C719,720			CQ92FM1H104J	MYLAR 0.10UF J		
C721,722			CE04LW1C470M	ELECTRO 47UF 16WV		
C723			CE04LW1V332M	ELECTRO 3300UF 35WV		
C725			CE04LW1C470M	ELECTRO 47UF 16WV		
C726			CE04EW1C471M	ELECTRO 470UF 16WV		
C727			CE04LW1E222M	ELECTRO 2200UF 25WV		
C728,729			CQ92FM1H104J	MYLAR 0.10UF J		
C730			CE04LW1A470M	ELECTRO 47UF 10WV		
C731,732			CK45FF1H103Z	CERAMIC 0.010UF Z		
C733,734			CE04LW1C470M	ELECTRO 47UF 16WV		
C736			CE04LW1V100M	ELECTRO 10UF 35WV		
C737			CE04LW1C101M	ELECTRO 100UF 16WV		
C738			CE04LW1C470M	ELECTRO 47UF 16WV		
C740			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C741			CC73FSL1H221J	CHIP C 220PF J		
C742			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C743			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		

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No.11

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
C744			CC73FSL1H102J	CHIP C 1000PF J		
C745			CE04LW1E470M	ELECTRO 47UF 25WV		
C746			CC73FCH1H220J	CHIP C 22PF J		
C747			CK73FB1H222K	CHIP C 2200PF K		
C748-751			CQ92FM1H104J	MYLAR 0.10UF J		
C752			CE04LW1C470M	ELECTRO 47UF 16WV		
C753			CE04LW1A101M	ELECTRO 100UF 10WV		
C754			CK73FB1H103K	CHIP C 0.010UF K		
C757,758			CQ92FM1H104J	MYLAR 0.10UF J		
C759			C91-1488-05	MF 6800PF 250VAC		
C760			CK45FF1H103Z	CERAMIC 0.010UF Z		
J601	1I	*	E63-0115-05	PHONO JACK		
J602	2H		E11-0220-05	MINIATURE PHONE JACK		
J603	2H		E11-0209-05	PHONE JACK		
J604	1I		E70-0045-05	LOCK TERMINAL BOARD		
⚠ F1	3I		F06-2021-05	FUSE (SEMKO) (250V T2AL)	YMX	
⚠ F1 -3	3I		F05-4028-05	FUSE (UL) (125V 4A)	KRP	
⚠ F2 ,3	3I		F05-4025-05	FUSE (SEMKO) (250V T4A)	YMX	
⚠ F4	3I		F05-1623-05	FUSE (SEMKO) (250V T1.6A)	YMX	
⚠ F4	3I		F05-1628-05	FUSE (UL) (250V 1.6A)	KRP	
⚠ F5	3I		F04-1026-05	FUSE (UL) (250V 1A)	KRP	
⚠ F5	3I		F06-1022-05	FUSE (SEMKO) (250V T1AL)	YMX	
⚠ F6	3I		F06-2021-05	FUSE (SEMKO) (250V T2AL)	YM	
CN601-606			J13-0075-05	FUSE CLIP	KRPX	
CN601-608			J13-0075-05	FUSE CLIP	YM	
CN613-616			J13-0075-05	FUSE CLIP		
J607,608			J11-0098-05	WIRE CLAMPER		
L201			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L202			L40-1091-17	SMALL FIXED INDUCTOR(1UH, K)		
L401,402			L79-1201-05	LC FILTER		
L403,404			L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)		
X201			L78-0299-05	RESONATOR		
X202			L78-0605-05	RESONATOR (8.38MHZ)		
R524			RD14NB2E100J	RD 10 J 1/4W		
R675-678			RD14NB2E100J	RD 10 J 1/4W		
R679-682			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R685,686			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W		
R689-692			RD14NB2E102J	RD 1.0K J 1/4W		
R701			RD14NB2E101J	RD 100 J 1/4W		
R703			RD14NB2E010J	RD 1.0 J 1/4W		
R704			RD14NB2E151J	RD 150 J 1/4W		
R706			RD14NB2E100J	RD 10 J 1/4W		
R730			RS14KB3D1R0J	FL-PROOF RS 1.0 J 2W		
R733			RD14NB2E222J	RD 2.2K J 1/4W		
R736			RD14NB2E101J	RD 100 J 1/4W		
R748			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R765			RS14KB3D330J	FL-PROOF RS 33 J 2W		
R772			RD14NB2E101J	RD 100 J 1/4W		
⚠ R787			R92-1769-05	CARBON 3.3M J 1/2W	KRP	
VR201			R12-3688-05	TRIMMING POT.(47K ７ヒ)		
VR601	2H	*	R31-0003-05	VARIABLE RESISTOR		
VR602	1H	*	R31-0002-05	VARIABLE RESISTOR		
W52			R92-0670-05	CHIP R 0 OHM		

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No.12

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
W221			R92-0670-05	CHIP R 0 OHM		
W601-619			R92-0670-05	CHIP R 0 OHM		
W632,633			R92-0670-05	CHIP R 0 OHM		
W635,636			R92-0679-05	CHIP R 0 OHM		
W637			R92-0670-05	CHIP R 0 OHM		
K601			S51-2094-05	MAGNETIC RELAY		
⚠ S601	2I		S31-2322-05	SLIDE SWITCH	YM	
D201-209			MA110	DIODE		
D501			HSS104	DIODE		
D501			1SS133	DIODE		
D502			HZS5.1N(B2)	ZENER DIODE		
D502			RD5.1ES(B2)	ZENER DIODE		
D601,602			HSS104	DIODE		
D601,602			1SS133	DIODE		
D603			D3SBA20F03	DIODE		
D603			RBV-402LFA	DIODE		
D604			HSS104A	DIODE		
D604			1SS131	DIODE		
D605			S5688B	DIODE		
D605			1SR139-100	DIODE		
D606			KBP02ML-6127	DIODE		
D607-610			S5688B	DIODE		
D607-610			1SR139-100	DIODE		
D611,612			HSS104	DIODE		
D611,612			1SS133	DIODE		
D613			HZS6.8N(B2)	ZENER DIODE		
D613			RD6.8ES(B2)	ZENER DIODE		
D614			HZS16N(B2)	ZENER DIODE		
D614			RD16ES(B2)	ZENER DIODE		
D615,616			HZS13N(B2)	ZENER DIODE		
D615,616			RD13ES(B2)	ZENER DIODE		
D617			HZS2.7N(B2)	ZENER DIODE		
D617			RD2.7ES(B2)	ZENER DIODE		
D618			HZS6.8N(B2)	ZENER DIODE		
D618			RD6.8ES(B2)	ZENER DIODE		
D619,620			HSS104	DIODE		
D619,620			1SS133	DIODE		
D621			HZS3.9N(B2)	ZENER DIODE		
D621			RD3.9ES(B2)	ZENER DIODE		
D622-629			MA110	DIODE		
D630,631			S5688B	DIODE		
D630,631			1SR139-100	DIODE		
D632,633			MA110	DIODE		
D634			HZS5.1N(B2)	ZENER DIODE		
D634			RD5.1ES(B2)	ZENER DIODE		
D635,636			MA110	DIODE		
D640			HZS10N(B2)	ZENER DIODE		
D641-643			HSS104	DIODE		
D641-643			1SS133	DIODE		
IC201			AN8806SB	ANALOG IC		
IC202			BA6398FP	ANALOG IC		
IC203		*	MN66271RA	MOS-IC		
IC204		*	UPD78012BGC-634	MI-COM IC		
IC205,206			TA8409S	IC(MOTOR CONTROL)		

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No.13

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
IC207			NJM2100M	IC(OP AMPLIFIER)		
IC401		*	HA12182NT	IC(DOLBY B NR REC EQUALIZER)		
IC601		*	NJU7313AM	ANALOG IC		
IC602		*	CXA1642M	ANALOG IC		
IC604			NJM4565M	IC(OP AMP X2)		
IC605			TA78057S	IC(VOLTAGE REGULATOR/+5.75V)		
IC606			NJM4565M	IC(OP AMP X2)		
Q201			2SA1534A(R,S)	TRANSISTOR		
Q202			2SA954(L,K)	TRANSISTOR		
Q203			2SC2412K	TRANSISTOR		
Q401,402			DTC124EU	DIGITAL TRANSISTOR		
Q403-406			2SD1757K	TRANSISTOR		
Q503			DTA124ES	DIGITAL TRANSISTOR		
Q504			2SC2412K	TRANSISTOR		
Q505			2SC3940A(R,S)	TRANSISTOR		
Q506			DTA124ES	DIGITAL TRANSISTOR		
Q507			DTC124ES	DIGITAL TRANSISTOR		
Q513			2SC2412K	TRANSISTOR		
Q601,602			2SC4137(V,W)	TRANSISTOR		
Q603,604		*	2SD2493	TRANSISTOR		
Q605,606		*	2SB1624	TRANSISTOR		
Q607,608			2SC1845(F,E)	TRANSISTOR		
Q609			2SD1893	TRANSISTOR		
Q611			2SC3246(H,J)	TRANSISTOR		
Q612,613			2SC2412K	TRANSISTOR		
Q614			2SA954(L,K)	TRANSISTOR		
Q615-617			2SA1037K	TRANSISTOR		
Q618			2SD2012	TRANSISTOR		
Q619			2SA933S(Q,R)	TRANSISTOR		
Q620			2SD2012	TRANSISTOR		
Q621,622			2SC2412K	TRANSISTOR		
Q623			2SA933S(Q,R)	TRANSISTOR		
Q624			2SD2012	TRANSISTOR		
Q625,626			2SC2412K	TRANSISTOR		
A1		*	W02-1190-05	FM FRONT-END ASSY		
CD MECHANISM ASSY(D40-1350-05)						
101	2B	*	A10-3119-08	CHASSIS (MAIN)		
102	3A	*	A15-0084-08	FRAME (MD)		
105	2A	*	D10-3457-08	SLIDER (LIFT)		
107	2B	*	D10-3459-08	LEVER (LOCK)		
108	2A	*	D10-3460-08	LEVER (BRAKE)		
109	1B	*	D10-3496-08	FRICTION ARM ASSY		
110	2A		D10-3492-08	FEED SHAFT		
113	1A	*	D13-1599-08	GEAR (IDLER)		
114	2B	*	D13-1600-08	GEAR (LOAD)		
115	1B	*	D13-1601-08	GEAR (CENTER)		
117	2A	*	D13-1603-08	CAM GEAR(UP/DOWN)		
118	1A	*	D13-1604-08	GEAR (HELICAL)		
119	2A		D13-1643-08	GEAR		
120	2B	*	D14-0361-08	ROLLER (TRAY)		
122	2B	*	D15-0366-08	PULLEY (LOAD)		
123	1B	*	D16-0363-08	DRIVE BELT		
125	2B	*	D21-1762-08	SHAFT (PULLEY)		

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⁎ New Parts
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No.14

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
130	3B	⁎	E32-0343-04	TERMINAL		
131	3A	⁎	E35-0806-08	8P WIRE (TU-A)		
132	3A	⁎	E35-0807-08	8P WIRE (TU-B)		
133	3B	⁎	E35-0808-08	6P WIRE		
134	2A	⁎	E35-0809-08	6P FRAT WIRE		
135	3A	⁎	E35-0810-08	6P WIRE (TU-C)		
136	2A	⁎	E35-0811-08	3P WIRE		
137	3A		E40-3264-05	CONNECTOR		
140	1A	⁎	F07-0732-08	COVER (TRAY)		
141	3B	⁎	F07-0736-08	COVER		
144	2A, 3A		G01-3693-08	COMPRESSION SPRING		
145	3A	⁎	G01-3660-08	SPRING (MD-A)		
146	3A	⁎	G01-3661-08	SPRING (MD-B)		
148	3A	⁎	G01-3663-08	SPRING (CAM)		
149	2B	⁎	G01-3664-08	SPRING (LOCK)		
150	2A	⁎	G01-3665-08	SPRING (BRAKE)		
152	1A, 1B		G16-0821-04	SHEET (TRAY)		
155	2A	⁎	J02-1101-08	INSULATOR		
156	1B	⁎	J11-0301-08	CLAMPER		
157	1B	⁎	J19-3659-08	BRACKET (CLAMP)		
158	1B	⁎	J19-3660-08	BRACKET (GEAR)		
159	2B	⁎	J19-3661-08	BRACKET (TRAY)		
160	3A		J61-0081-05	SK BINDER SKB-100		
161	1A	⁎	J99-0541-08	TRAY (SLIDE)		
162	1A	⁎	J99-0542-08	TRAY (ROTARY)		
163	3A		J70-0619-08	MOTOR PCB		
164	1B		J90-0818-08	CENTER RING		
L		⁎	N09-3052-08	SCREW		
M		⁎	N09-3053-08	SCREW		
N		⁎	N09-3107-08	SCREW		
165	1B		S33-2061-05	LEVER SWITCH		
166	2A, 2B	⁎	S64-0015-08	LEVER SWITCH JPS1220-0201		
167	3A		S74-0038-08	LEAF SWITCH		
170	1B		T50-1055-04	YOKE		
171	1B		T99-0544-05	MAGNET		
DM	3A		A11-1038-08	TT CHASSIS ASSY		
FM	3A		T42-0676-08	MOTOR GEAR (FEED)		
LM	3B	⁎	T42-0682-08	MOTOR PULLEY ASSY		
PU	3A		T25-0011-05	PICKUP (KSS-210A)		
RTM	2A	⁎	T42-0683-08	MOTOR WORM ASSY		
CASSETTE MECHANISM ASSY(D40-134X-XX)						
401	2C	⁎	A10-3174-08	HEAD CHASSIS		
405	2E	⁎	D01-0175-08	FLYWHEEL (R) ASSY		
406	1D	⁎	D01-0176-08	FLYWHEEL (L) ASSY		
407	1C	⁎	D10-3468-08	INTER LOCK ARM (L)(A MECHA)		
408	2D	⁎	D10-3469-08	INTER LOCK ARM (R)(B MECHA)		
409	1E	⁎	D10-3470-08	SHIFT LEVER		
410	2E	⁎	D10-3471-08	HEAD CHANGE ARM		
411	1E	⁎	D10-3472-08	CAM GEAR		
412	1C	⁎	D10-3476-08	EJECT LEVER (L) (A MECHA)		
413	2E	⁎	D10-3477-08	EJECT LEVER (R) (B MECHA)		
414	2C	⁎	D10-3478-08	SELET LEVER		

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⚠ indicates safety critical components.

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.15

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
415	1D	⁎	D10-3479-08	CHASSIS OS ASSY		
416	2C	⁎	D10-3480-08	C/R LEVER		
420	2C	⁎	D13-0981-08	ROTATION GEAR		
421	1C	⁎	D13-1616-08	REW GEAR		
422	1C, 2D	⁎	D13-1617-08	REEL GEAR		
423	1D	⁎	D13-1618-08	IDLER GEAR		
424	2C	⁎	D13-1621-08	RETURN GEAR		
425	1E	⁎	D13-1622-08	TRIGGER ARM		
426	2D	⁎	D14-0367-08	PINCH ARM (R) ASSY		
427	2C	⁎	D14-0368-08	PINCH ARM (L) ASSY		
430	1D	⁎	D15-0369-08	IDLER PULLEY		
431	2E	⁎	D16-0375-08	DRIVE BELT		
432	2E	⁎	D16-0376-08	CLUTCH BELT		
433	1C, 2C		D19-0270-18	REEL CAP (A)		
434	1D	⁎	D19-0287-08	CLUTCH ARM ASSY		
440	1E		E35-0396-08	15P FLAT RIBBON WIRE		
441	2C	⁎	E35-0985-08	3P HEAD WIRE ASSY (A MECHA)		
441	2C	⁎	E35-0987-08	5P HEAD WIRE ASSY (B MECHA)		
442	1E	⁎	E35-0986-08	MOTOR WIRE		
445	1C, 2D	⁎	G01-3709-08	B.T SPRING		
446	1D	⁎	G01-3710-08	SHIFT LEVER SP		
447	1E	⁎	G01-3711-08	TRIGGER ARM SP		
448	2E	⁎	G01-3712-08	HEAD CHANGE ARM SP		
449	1C, 2E	⁎	G01-3713-08	EJECT SP		
450	2C	⁎	G01-3714-08	C/R LEVER SP		
451	2C	⁎	G01-3715-08	SELECT SP		
452	2C	⁎	G01-3716-08	SHIFT SP		
453	1C	⁎	G01-3717-08	INTER LOCK SP (L)		
454	2D	⁎	G01-3723-08	INTER LOCK SP (R)		
455	2C	⁎	G01-3718-08	RETURN SPR		
456	2C	⁎	G01-3719-08	FWD SPR		
457	2C	⁎	G01-3720-08	HEAD RETURN PLATE SP		
458	2D	⁎	G01-3721-08	BRAKE SP (R)		
459	1D	⁎	G01-3722-08	BRAKE SP (L)		
460	1D	⁎	G01-3724-08	CLUTCH ARM SPRING (B)		
461	1D	⁎	G01-3725-08	CLUTCH SP		
462	1D		G02-0913-08	PACK SPRING		
463	2C	⁎	G02-1043-08	AZIMUTH SPR		
465	2C	⁎	G11-2117-08	HEAD WIRE CLAMP		
466	1D	⁎	G11-2205-08	TUBE		
467	2D		G16-0791-08	REFLECT SEAL		
470	1E		J19-3652-08	CABLE HOLDER		
471	2C	⁎	J19-3709-08	HEAD BASE		
472	2C	⁎	J21-6135-08	HEAD RETURN PLATE		
473	2C	⁎	J21-6184-08	HEAD PLATE ASSY		
474	2C		J42-0183-08	REEL BUSH		
475	2D	⁎	J69-0086-08	FILAMENT TAPE		
AA			N19-1316-08	POLY WASHER		
AB			N19-1354-08	NYLON WASHER		
AC			N19-1355-08	NYLON WASHER		
AD		⁎	N19-1384-08	POLY WASHER		
AE		⁎	N19-1385-08	POLY WASHER		
AF		⁎	N19-1386-08	POLY WASHER		

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S : SINGAPORE MADE A : A DECK
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* New Parts
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No.16

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
AG		*	N19-1387-08	TEFRON WASHER		
AH		*	N19-1388-08	POLY WASHER		
AK			N09-2900-08	SCREW		
S			N09-1497-08	TAP TITE SCREW		
T			N09-2871-08	TAPPING SCREW		
V			N09-2876-08	HEAD SCREW		
W			N09-2901-08	BIND TAP TITE SCREW		
X		*	N09-3112-08	AZIMUTH SCREW		
Y			N19-1287-08	POLY WASHER		
Z			N19-1288-08	POLY WASHER		
480	1E,2E	*	S74-0033-08	REC SWITCH		
481	1E,2E	*	S74-0042-08	PLAY SWITCH		
484	1E	*	T94-0233-08	SOLENOID ASSY		
485	1E,2E		T95-0125-08	PHOTO INTERRUPTER		
MM	1E	*	T42-0687-08	MOTOR ASSY		
PH	2H		T31-0066-08	ROTATION HEAD MK10P-AB215(A)		
RPRH			T31-0020-08	ROTATION HEAD YK56R-AA405(B)		

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S : SINGAPORE MADE
W : MALAYSIA MADE

A : A DECK
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⚠ indicates safety critical components

RXD-C3/C3L

SPECIFICATIONS

Amplifier section

Rated power output

32 watts per channel minimum RMS, both channels driven, at 6 Ω from 60 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

Input sensitivity / Impedance	
AUX	200 mV / 47 kΩ
MIC	2.7 mV / 47 kΩ
Total harmonic distortion	0.2 % (1 kHz, 1/2 rated power, 6 Ω)
Signal to noise ratio	
AUX	80 dB (IHF'66)

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Sensitivity (IHF)	13.2 dBf (1.2 μV at 75 Ω)

AM Tuner section

Tuning frequency range	530 kHz ~ 1,700 kHz
Usable sensitivity	12 μV / (500 μV / m)

Cassette deck section

Track		4-track, 2-channel stereo
Recording system		AC bias system (Frequency: 105 kHz)
Heads		
A deck	Playback head	1
B deck	Playback / recording head	1
	Erasing head	1
Motors		
A deck		1
B deck		1
Fast winding time		Approx. 120 seconds (C-60 tape)
Wow and flutter		0.15 % (W.R.M.S.)

CD player section

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Wow & Flutter	Unmeasurable Limit

General

Power consumption	100 W
Dimensions	W: 270 mm (10-5 / 8") H: 305 mm (12") D: 339 mm (13-3 / 8")
Weight (net)	7.6 kg (16.8 lb)

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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